## :hager

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Dear Friends and Partners,
In 2010, as you perhaps know, the Hager Group acquired Berker, the renowned German switches manufacturer, and thus rounded off the range of products on offer to you. We can now present in this new catalogue a truly comprehensive choice in terms of switch series and building control systems.

Berker, like the specialist Hager, is remarkable for the highest quality, innovative products, modularity, quick-fit installation, ease of use, top service, stylish design and, not least, close proximity to the customers. And so the catalogue sets out a range of products even wider than before - and at the same constantly high standard of quality.

Innovation, customer proximity, simplicity and reliability form the basis of our product range. We keep in close contact with our customers and regularly survey their wishes and needs, feedback that then flows into the ongoing development of our products and systems. The same applies to the catalogue which has been designed as a practical tool for you to use. But why not have a browse and see for yourself?

Kind regards



## Permanent innovation

Innovations and the systematic enhancement of the products and systems are key features of the Hager brand. It has always been our goal to use new designs and imnprovements to stay ahead of developments.

## Customer Driven

 is always customer-driven. Every year, Hager evaluates thousands of its customer contacts, resulting in detailed knowledge of its customers'needs in order to work efficiently and successfully.Based on this knowledge, Hager develops the innovative solutions that are so characteristic for the Hager brand. Ease of installation, ease of use, intuitive user interfaces, modularity and durability are brand values that guarantee the highest quality throughout in Hager systems.

## Research and Development

65 per cent of Hager products and systems are less than three years old. This high degree of innovation enables the users to meet various new challenges more effectively. The strong demand for innovations and enhancements is indicative of the customer-oriented policy of the Hager brand.

Today, Hager employs about 850 engineers in research and development (R\&D) and invests about five per cent of its revenue for R\&D, Hager permanently strives to offer innovative and value-adding systems. Every years, Hager applies for about 170 new patents.


## A flourishing group

The Hager Group is a leading supplier of solutions and services of electrical installation systems for residential and commercial properties as well as industrial applications.

Across the world, the Hager Group has 26 productions sites in 12 countries. The marketing presence in 55 countries is supported by more than 20,000 selling points of our wholesale partners. As a global player, the company has about 11,000 employees, and a turnover nearly by 1.5 billion Euro in 2010. Today, the Hager Group offers more than 74,000 references.


## The complete system from one source

Hager is the specialist for electrical installations in residential and commercial sectors, you can receive everything from one source: Systems and Solutions - high quality, reliable and easy to install.


This catalogue is intended as procedure documentation for dealers and trade.
Our terms of sale, delivery and payment apply exclusively.
Our publications are intended to provide information to the best of our knowledge and are in no way intended to be legally binding. Illustrations are not binding, especially with regard to colour, size and configuration of the products shown.

Industrial property rights exist for many of the products.
We reserve the right to make technical and formal changes to our products in the interest of technical progress.

All items in this catalogue which are subject to CE regulations bear the CE mark on their packaging label and on the product itself.


| Inserts for standard/surface ranges | Module inserts <br> House electronics | $24-41$ <br> $42-67$ <br> Standard ranges <br>  |
| :--- | :--- | ---: |


| Surface ranges | B. 1 <br> B. 3 <br> B. 7 Glas <br> S.1/B.1/B.3/B. 7 Glas <br> Rockers and centre inserts Q. 1 <br> K.1/K. 5 <br> Arsys <br> Arsys Copper Med | $\begin{aligned} & 108-111 \\ & 112-115 \\ & 115-119 \\ & 120-157 \\ & 158-191 \\ & 192-233 \\ & 234-271 \\ & 272-275 \end{aligned}$ |
| :---: | :---: | :---: |
| Special ranges | Serie 1930, Glasserie, Palazzo TS, TS Crystal, TS Crystal Ball, TS Sensor | $\begin{aligned} & 276-287 \\ & 288-321 \end{aligned}$ |
| Building management systems | Motion detectors <br> Radio Bus KNX/EIB <br> Safety systems | $\begin{aligned} & 312-311 \\ & 322-351 \\ & 352-425 \\ & 426-435 \end{aligned}$ |


| Industrial design range | Integro <br> Module inserts | $436-439$ <br> $440-453$ |
| :--- | :--- | :--- |


| Splash-protected ranges | Splash-protected flush mounted IP44 <br> Aquatec IP44/Diecast IP44 <br> Iso-Panzer IP44/IP66 | $454-465$ <br> $466-481$ <br> $482-489$ |
| :--- | :--- | :--- |
| Surface-mounted range | Surface-mounted range | $490-497$ |

# Ideas, perfection, but above all a passion for excellent design. 


product design award

Berker B.1, B.3, B.IQ, S.1, TS Sensor, Radio Touch

design award china

Berker K.1, TS Sensor

## DESIGN PLUS

reddot award
Berker Q.1, B.IQ, TS, TS Sensor, Radio Touch

Berker B.IQ, Arsys Copper Med

NOMINIERT
Berker Q.1, B.IQ, K.5, TS Sensor, Serie 1930 Porzellan made by Rosenthal, TS Crystal Ball

## New product



# Radio touch: <br> Superb entertainment 

It's amazing what can be squeezed into a tiny box: eight radio stations in the VHF version. It can be mounted in any flush-mounted socket, and easily adjusted via a stylish touch screen. And with an optional docking station for iPod ${ }^{1} / \mathrm{iPhone}^{1}$ and second speaker it transforms itself into a real stereo system - in the bedroom, bathroom, office, kitchen or wherever you want to experience the big pleasure of listening to a little box.


You can find the Radio touch on the following pages:

Modul 2
26-28
S.1/B.1/B.3/B. 7 144-145
Q. 1 183
K.1/K. 5

221-222
Arsys
256-257


VHF radio module (touch display)


Speaker

iPod'/iPhone ${ }^{1}$
docking station


Cinch/S-Video
socket

## Accessories

- Second speaker
- Docking station for iPod ${ }^{1} /$ iPhone $^{1}$
- Multimedia sockets for connection
of external audio sources
- Aux input e.g. for mp3 player
- Scope of delivery: radio module and one speaker
- Available in the colours polar white and stainless steel for all standard and surface ranges
- VHF reception
- 8-station memory
- Automatic and manual search function
- Time and date display
- Alarm and snooze function



# Multimedia socket outlets 

Who would have thought a couple of years ago that we would soon be turning our living rooms into fully-fledged cinemas with high-definition screens? That games consoles would become a standard feature of many households? That a data projector would soon be a permanent fixture in virtually every conference room? In response to these developments we have developed a range of multimedia socket outlets to allow seamless integration of all the very latest consumer electronics equipment. We are one of the first German switch manufacturers to offer a multimedia connection package, bringing advantages that are almost as exciting as an evening of thrilling home cinema.


You can find the Multimedia socket outlet on the following pages:
S.1/B.1/B.3/B. 7 145-146
Q. 1

183-185
K. 1/K. 5

222-223
Arsys


- Suitable both for conventional plug connections as well as newer generation devices (e.g. full HD)
- Cinch/S-Video socket outlet for receivers, hi-fis and DVD players
- USB/mini audio socket outlet for mobile devices and PC peripherals
- VGA socket outlet for notebooks, data projectors and PC monitors (also for highdefinition LCD monitors)
- High-definition socket outlet for all the latest consumer electronics equipment (HDMI)
- Standard installation materials, thus simple mounting
- Available for Berker standard and surface ranges


## New product

# USB charging socket: Leading the charge... 

You used to need a different charger for virtually every mobile phone, digital camera, PDA and games console. Now we present the ideal all-in-one solution: the USB charging socket. It can be perfectly integrated into the existing flush-mounted installation, is extremely energyefficient, and can be used for charging the batteries of any mobile device that allows USB charging ${ }^{1}$. In future, more and more smartphones, sat navs, MP3 players and other mobile devices will be chargeable via a USB connection. With the USB charging socket, offices and homes are already perfectly prepared for the future.


You can find the USB charging socket on the following page:

House electronics


- Universal interface for charging mobile devices
- Matches all Berker switch ranges
- Easily integrable into the existing electrical installation.
- The wide-range input (100 to 240 V) means it can be used internationally



## New product

## B.

Berker by :hager



# Arsys Copper Med: The first of its kind 

Antibacterial and hygienic. Killing bacteria effectively.
It's a real first in Germany: the Arsys Copper Med is the first switch whose material alone exerts a powerful antibacterial effect. Practical trials in hospitals have demonstrated the enormous hygiene benefits of this switch range with bacteria-inhibiting copper surface, co-developed by Berker.


You can find this range on the following pages


- Functional switches made from real, antibacterial copper
- The new hygiene standard for hospitals, doctors' practices, care facilities, and all public areas
- Recommended for use in high-traffic "hot spots" such as entrance areas and access corridors
- Complements conventional concepts based on the Arsys switch range
- Range includes 1gang to 3gang frame, rocker, SCHUKO socket outlet and socket outlet with earth pin


# Little details that make a big difference 

## Benefits of the new socket outlets

Virtually every day our customers hold them in their hands, assemble them, install them in properties; for electricians, working with them is the most natural thing in the world. Berker has been producing socket outlets for more than 90 years; thousands of them daily, in the highest quality, using high-quality materials, in exclusive designs - for Berker's, that's also a very natural thing to do. Just as naturally, we have applied our many years of experience and innovative ideas to optimise many tiny details in our socket outlets in order to make our customer's daily work Just as naturally, we have applied our many years of experience and innovative ideas to optimise many tiny details in our socket outlets in order to make our customer's daily work

- easier
- faster and
- safer.

After all, for us, they are more than just socket outlets. The new socket outlets, in the latest Berker designs, boast a particularly compact design and sturdy, enclosed base.
The supporting ring with high-quality surface is very rugged, has no sharp edges, and has modified contours that make alignment and screwing at the place of installation considerably easier. The conductors are now easier to insert and screw into the connecting terminals. The open claw geometry prevents damage to the conductors during assembly. The possibility of parasitic voltage on the supporting ring is prevented by galvanic separation. And the positive reset of the proven Flexolift claws means that they retract fully into the base. The claw screws provide an optimum grip for screwdrivers. And their thread is designed so that just 4 or 5 turns are enough to anchor the claw in the switch box, or to release it. The centre plate, too, can be fixed in place in just a few turns. In addition to these product improvements, the packaging has also been enhanced. In the 10-unit box, the centre plates are separated from the inserts by means of an additional tray. This means that, on the building site, the inserts can be fitted first, followed by the centre plates. Thus, if further interior work is necessary, the surfaces are protected from contamination, as the centre plates are covered with a film on which product data are printed.


- Robust closed socket
for safe installation

- Galvanic separation of supporting ring for safe working with no parasitic voltage
- Open claw geometry
prevents damage to conductors during installation
- Claws are accommodated in base when fully retracted, for easy insertion/ positioning in the switch box and reduced risk of injury
- Optimised terminal design for easier insertion of conductors
- Screw-in lift terminals ${ }^{1}$ for rapid connection and secure positioning of the conductors

${ }^{1}$ Only in socket outlets with screw-in lift terminals


# The proven benefits of switch inserts at a glance. 

As the inventor of the module system, Berker is the only manufacturer to have retained its philosophy unchanged right through to the present. Even years later, it is still possible to adapt the switch to a new interior design. The actual inserts are left in the wall. Only the surfaces are replaced. Even if a control switch or illuminated switch is desired, the switch insert always remains the same. For you that means:

- No wrong inserts on construction site
- Minimal stockholding
- Lasting customer satisfaction

Outstanding functionality and easy handling are what set the switch inserts apart. The tried and tested modular design and extremely flat switching angle of only $3.5^{\circ}$ make the switch appear very flat on the wall. To ensure an easy installation, the concept of the Flexolift claws was introduced. The claws are flush fitting, and are forced automatically back into position when released. On the back of the switch is a laser engraving of the circuit diagram, the graphical symbol, the article number and the conductor stripping length. A cable guard around the claw screws prevents damage to the conductors. Specially-moulded lever release catches reduce the effort required to release the conductors. An optional neon lamp unit can be firmly and palpably clipped into the supporting ring. The rockers are precisely guided with the help of mounts on the switch insert, making the switch pleasant to use.


- High-quality supporting ring sturdy, no sharp edges, with additional screwing options for easy mounting on soft surfaces

- Optimal supporting ring design marked for precise alignment at place of installation

$3.5^{\circ}$ Switching angle
for a flatter appearance
- Modular design suitable for all rocker types

- Large clearance around the claw screw with cross-head screws

- Variable 4-pin mount
for precise seating of rockers

- Clip-in neon/glow lamp unit
for exact positioning on the supporting ring, can be used as indicator or orientation light
- Moulded lever release catches
for easy release of conductors
- Labelling on backside of switch showing order no, circuit diagram/graphical symbol, conductor stripping guide



## - Cable guard

to prevent damage to the conductors by the claw screws


- Flexolift claws ${ }^{\circledR}$
for flush-fitting positioning of claws and automatic reset upon release
- Minimal installation depth
providing maximum space for installation of the insert in hollow-wall mounting



## Modular assembled design: From application...

## In only three steps

Here we show for three different products how you can put together a complete product, and how easy it is to find the ordering data for the individual components in the catalogue.

1

Application

Light switch
e.g.: rocker switch change-over order no.: 3036

House electronics

e.g.: RolloTec standard insert order no.: 2925

House electronics

e.g.: BLC universal touch dimmer order no.: 2902

## 2

## Choose frame design

e. g. in the chapter:
B. 3

e.g.: frame aluminium/polar white 1 gang order no.: 10113904
K. 1

e.g.: frame polar white 1gang
order no.: 13137009
S. 1

e.g.: frame polar white, matt 1 gang order no.: 10119909

## ...to complete product

## 3

Find a suitable cover
in the chapter
S.1/B.1/B.3/B. 7 Glas

Rockers and centre inserts

e.g.: rocker polar white, matt order no.: 16201909
K.1/K. 5

Rockers and centre inserts


Example: RolloTec time switch Easy
with display polar white
order no.: 17627109
S.1/B.1/B.3/B. 7 Glas

Rockers and centre inserts


Example: BLC radio button polar white, matt order no.: 17601909

## Complete product



Rocker switch change-over Design: B. 3


RolloTec time switch Easy
with display
Design: K. 1

Radio Bus System
Transmitter


Remote operation e.g. with Radio hand-held transmitter comfort
order no.: 2766

## Module inserts

## For standard and surface ranges, electromechanical inserts/components

Module system: an adjustable installation system that features covers you can mount on already installed inserts - even at the last minute.

- Frames and cover are easy to change
- Permits subsequent design changes
- Once installed, the insert remains in the wall

Please note: only mount in conjunction with standard commercial wall boxesaccording to DIN 49073 Part 1.


| Switces | $26-28$ |
| :--- | ---: |
| Lighting units | 28 |
| Timer | 29 |
| Push-buttons | $29-30$ |
| Switches for shutters | 30 |
| Push-buttons for shutters | $30-31$ |
| Pilot lamps | $31-32$ |
| Cable outlets | 32 |
| TV/Audio/Video | $32-35$ |
| Daspital installation |  |
| /Tele communications | $35-40$ |

Order no.
Packing
Order no.
Packing
unit


| Rocker switch |  |  |
| :--- | :--- | :--- |
| on/off | $\mathbf{3 0 3 1}$ | 10 |
| change-over | 3036 | 10 |
| intermediate | $\mathbf{3 0 3 7}$ | 10 |
| $10 \mathrm{AX}, 250 \mathrm{~V} \sim$ |  |  |

I on page T3
Can be illuminated using neon and incandescent lamp units with N-terminal order no. 1675 .., 1676 ..

Connection terminals IEC 60669-1
$\square$ for illumination and monitoring circuit
■ with plug-in terminals


Rocker switch for installation in hollow-walls change-over 30365010
$10 \mathrm{AX}, 250 \mathrm{~V} \sim$

Can be illuminated using neon and incandescent
I on page T3 lamp units with N-terminal order no. 1675 .., 1676 ..

Connection terminals IEC 60669-1
$\square$ for illumination and monitoring circuit

- without spreader claws
- low installation depth
- with plug-in terminals



## Rocker switch

| change-over | 613036 | 10 |
| :--- | :--- | :--- |
| intermediate | 613037 | 10 |

$10 \mathrm{AX}, 250 \mathrm{~V} \sim$
For the Netherlands!
I on page T3
Can be illuminated using neon and incandescent
lamp units with N-terminal order no. 1675 .., 1676 ..

■ for illumination and monitoring circuit

- with plug-in terminals

■ without spreader claws

- low installation depth


1 on page T3

## Rocker switch

2pole on/off 3032
10
10 AX, 250 V~
Only suitable in combination with rockers with „0" imprint.

Can be illuminated using neon and incandescent lamp units with N-terminal order no. 1675 .., 1676 ..

Connection terminals IEC 60669-1
■ with predefined 0 position
$\square$ for illumination and monitoring circuit
$\square$ with plug-in terminals


I on page T3
Rocker switch
2pole on/off 613032
10
$10 \mathrm{AX}, 250 \mathrm{~V} \sim$
Only suitable in combination with rockers with „0" imprint.
For the Netherlands!
Can be illuminated using neon and incandescent
lamp units with N-terminal order no. 1675 .., 1676 ..

- with predefined 0 position
$\square$ for illumination and monitoring circuit
$■$ with plug-in terminals
■ without spreader claws
■ low installation depth


I on page T4 imprint.
For switching of 16 A socket outlets, for example.
Can be illuminated using neon lamp unit order no. 160002

Connection terminals IEC 60669-1
■ with predefined 0 position
$\square$ for illumination and monitoring circuit
$\square$ with screw terminals


Rocker switch
2pole change-over 67303909
10
10 AX, 250 V~
Can be illuminated using neon lamp unit order no. 160002

■ for illumination

- with screw terminals


I on page T4

## Rocker switch

3pole on/off
303303
10
$16 \mathrm{AX}, 400 \mathrm{~V} \sim$
Only suitable in combination with rockers with „0" imprint.
Can be illuminated using neon lamp unit order no. 1600
Connection terminals IEC 60669-1

- with predefined 0 position
$\square$ for illumination and monitoring circuit
■ with screw terminals


## Rockers switches



I on page T4

Rockers switch
series 3035
10
$10 \mathrm{AX}, 250 \mathrm{~V} \sim$
Can be illuminated using neon and incandescent
lamp units with N-terminal order no. 1675 .., 1676 . Can be illuminated using series LED unit with N terminal order no. 1680

Connection terminals IEC 60669-1
$\square$ for illumination and monitoring circuit

- with plug-in terminals

Order no.
Order no.


Rockers switch for installation in hollow-walls
series 30355010
$10 \mathrm{AX}, 250 \mathrm{~V} \sim$

Can be illuminated using neon and incandescent
1 on page T4
lamp units with N-terminal order no. 1675 .., 1676 .. Can be illuminated using series LED unit with $\mathbf{N}$ terminal order no. 1680

Connection terminals IEC 60669-1

- for illumination and monitoring circuit
- without spreader claws
- low installation depth
- with plug-in terminals



## Rockers switch

series 61303510
10 AX, 250 V~
For the Netherlands!
I on page ТЗ
Can be illuminated using neon and incandescent lamp units with N-terminal order no. 1675 .., 1676 .. Can be illuminated using series LED unit with $N$ terminal order no. 1680

- for illumination
$\square$ without spreader claws
- low installation depth
- with plug-in terminals



## Rockers switch

double change-over, 303808
10
isolated input terminals
$10 \mathrm{AX}, 250 \mathrm{~V} \sim$

I on page T4
Can be illuminated using neon lamp unit order no. 160002

Connection terminals IEC 60669-1

- for illumination
- with screw terminals



## Rockers switch

double change-over,
61303808
10
isolated input terminals
$10 \mathrm{AX}, 250 \mathrm{~V}$ ~
For the Netherlands!
I on page T4
Can be illuminated using neon lamp unit order no. 160002

- for illumination
- without spreader claws

■ low installation depth

- with screw terminals


| Pullcord switches |  |
| :---: | :---: |
| - | Pullcord switch |
|  | change-over 3966 |
|  | 2pole on/off 396210 |
|  | $10 \mathrm{AX}, 250 \mathrm{~V} \sim$ |
| 71 | Pullcord connection 14 cm |
| I on page T4 | Centre plate order no. 1146 .., 1147 .., 1149 .. Can be illuminated using neon and incandescent lamp units with N-terminal order no. 1605 1.. |
|  | Connection terminals IEC 60669-1 |
|  | - for illumination and monitoring circuit <br> ■ for wall and ceiling mounting <br> ■ with plug-in terminals |



Ion page T4 see module inserts accessories.

For the Netherlands!
Centre plate order no. 1146 .., 1147 .., 1149 ..
Can be illuminated using neon and incandescent
lamp units with N -terminal order no. 1605 1..
$\square$ for illumination and monitoring circuit
$\square$ for wall and ceiling mounting

- without spreader claws
- low installation depth
- with plug-in terminals

Rotary switches


Rotary switch

| 20 A for $2.5-4 \mathrm{~mm}^{2}$ | 3862 | 10 |
| :--- | :--- | :--- |
| 25 A for $25-6 \mathrm{~mm}^{2}$ | 386201 | 10 |

25 A for $2.5-6 \mathrm{~mm}^{2} \quad 386201$
Switching angle $60^{\circ}$
Note!
Wall boxes must be mounted at least 43 mm deep.
Centre plate order no. 1150 ..

- 2pole on/off
- with screw terminals

■ without spreader claws

## 3-step switches



I on page T5

## 3-step switch

| with neutral-position: 3861 10 <br> 0-1-2-3   |  |  |
| :--- | :--- | :--- |
| without 0-position: 2-1-3 | 386101 | 10 |

without 0-position: 613861010
2-1-3without spreader
claws
$16 \mathrm{~A}, 250 \mathrm{~V} \sim$
For air conditioners and fans, for example.
61386101 for the Netherlands!
Centre plate without 0-position for order no. 1084 .., 1088 ..
Centre plate with 0-position for order no. 1087 .., 1096 ..
with screw terminals

Order no.
Order no.
Packing


Order no.
Packing
unit

## TIMERS



I on page T4

| Mechanical timer |  |  |
| :--- | ---: | :--- |
| runtime max. 15 min | 2040 | 1 |
| runtime max. 120 min | $\mathbf{2 0 4 1}$ | 1 |
| $16 \mathrm{AX}, 250 \mathrm{~V} \sim$ |  |  |
| Running accuracy $+/-10 \%$ |  |  |

Central piece 15 min order no. 1632 .., 1634 ..
Central piece 120 min order no. 1633 .., 1635 ..

- reset with slip-clutch
$\square$ with through terminal
- without spreader claws
- with screw terminals
- 2pole on/off

PUSH-BUTTONS
Rocker push-buttons


Rocker push-button
NO contact 503110
change-over contact, 503610 usable as NC or NO
NO, with 2 separate signalling contacts
$1 \mathrm{NO}, 1 \mathrm{NC}$, separate
input terminals
$10 \mathrm{~A}, 250 \mathrm{~V} \sim$

Can be illuminated using neon and incandescent lamp units with N-terminal order no. 1675 .., 1676 ..

Connection terminals IEC 60669-1

- for illumination and monitoring circuit
- with plug-in terminals


I on page T4
Can be illuminated using neon and incandescent lamp units with N -terminal order no. 1675 .., 1676 ..

Connection terminals IEC 60669-1

- for illumination and monitoring circuit
- without spreader claws
- low installation depth
- with plug-in terminals


Rocker push-button
NO contact 61503110
$10 \mathrm{~A}, 250 \mathrm{~V} \sim$
For the Netherlands!
I on page T4
Rocker push-button for installation
in hollow-walls
NO contact $\mathbf{5 0 3 1 5 0} 10$
$10 \mathrm{~A}, 250 \mathrm{~V} \sim$
wh plug-intermals

Can be illuminated using neon and incandescent lamp units with N-terminal order no. 1675 .., 1676 ..

- for illumination and monitoring circuit

■ without spreader claws

- low installation depth
$\square$ with plug-in terminals

Order no.
Packing
unit

## Rockers push-buttons



I on page T5
2 NO contacts, separate 503503 10 input terminals
$10 \mathrm{~A}, 250 \mathrm{~V} \sim$
Can be illuminated using neon and incandescent lamp units with N-terminal order no. 1675 .., 1676 ..
Connection terminals IEC 60669-1

- for illumination
- with plug-in terminals



## Rockers push-button

double change-over
503808
contact, usable as NC or
NO with separate input
terminals
$10 \mathrm{~A}, 250 \mathrm{~V} \sim$
Can be illuminated using neon lamp unit order no. 160002
Connection terminals IEC 60669-1

- for illumination
- with screw terminals


I on page T5

## Group rockers push-button

4 NO, common input 503404 terminal
$10 \mathrm{~A}, 250 \mathrm{~V}$
Follow the motor manufacturers` instructions!
Can be illuminated using neon lamp unit order no. 160002

Connection terminals IEC 60669-1

- with 0-position (rocker centre bearing)
- also suitable as push-button for shutters 2gang
- for illumination
- with screw terminals

Push-button insert for hotel card switch cover


I on page T6

Push-button insert for hotel card switch cover
NO contact 50510210
change-over contact, 50560110
usable as NC orNO
NO, with 2 separate
505103

1 NO, 1 NC , separate
505201
input terminals
2 A, 250 V~
10 A Design on request.
Can be illuminated using neon and incandescent lamp units with N-terminal order no. 1675 .., 1676 ..
Centre plate order no. 1640 .., 1641 ..
Connection terminals IEC 60669-1

- for illumination and monitoring circuit
- with plug-in terminals

Order no.
Packing
unit
Pullcord push-buttons


Pullcord push-button
change-over contact, 395619
with separate signal
contact
$10 \mathrm{~A}, 250 \mathrm{~V} \sim$
Pullcord connection 14 cm
I on page T5

Centre plate order no. 1146 .., 1147 .., 1149 ..
Can be illuminated using neon and incandescent lamp units with N -terminal order no. 1675 .., 1676 ..

■ for illumination and monitoring circuit
$\square$ for wall and ceiling mounting
■ with plug-in terminals

## Key push-buttons



Key push-button for profile half cylinders with additional earth contact
change-over contact, 385620
usable as NC or NO
$10 \mathrm{~A}, 250 \mathrm{~V} \sim$
Ion page T5
Centre plate order no. 1505 .., 1507 .., 1519 ..
Profile half cylinder see module inserts / accessories order no. 1818 01, 1818
$\square$ for master-key systems
■ without spreader claws
■ with screw terminals

## SWITCHES FOR SHUTTERS

Rockers switches for shutters


Rockers switch for shutters
1pole 303520
$10 \mathrm{~A}, 250 \mathrm{~V}$ ~
Follow the motor manufacturers` instructions!
I on page T5
■ with mechanical and electrical interlocking to prevent mutual switch on

- with plug-in terminals


## Rotary switches/rotary push-buttons for shutters



I on page T5
Rotary switch for shutters

| 1pole | 3841 | 10 |
| :--- | :--- | :--- |
| 2pole | 3842 | 10 |

$10 \mathrm{~A}, 250 \mathrm{~V} \sim$
Follow the motor manufacturers` instructions!
Centre plate order no. 1077 .., 1080 .., 1529 ..
Connection terminals IEC 60669-1
$■$ with neutral-position

- for centre plate with rotary knob

■ with push lock function
■ with screw terminals
Accessories: Interlock disk for rotary switch

## for shutters

for conversion to rotary
1861
10
push-button for shutters

Order no.
Packing
unit

## SWITCHES FOR SHUTTERS

Key switches for shutters


I on page T 5
Not suitable for flush-mounted splash protected IP44! Follow the motor manufacturers` instructions!

Centre plate order no. 1504 .., 1506 ..
Profile half cylinder see module inserts / accessories order no. 1818 01, 1818

■ with neutral-position
■ for master-key systems

- with push lock function

■ without spreader claws
■ with screw terminals
Key switches/key push-buttons for shutters


Key switch for shutters
1pole 3851 10
2pole 3852 10
$10 \mathrm{~A}, 250 \mathrm{~V} \sim$
Follow the motor manufacturers` instructions!
I on page T 5
Centre plate with lock order no. 1079 .., 1081 ..,
1082 .., 1083 ..

■ with neutral-position
$\square$ for centre plate with lock
■ the centre plate used determines the function of switch or push-button
■ with push lock function

- with screw terminals


## PUSH-BUTTONS FOR SHUTTERS

Rockers push-buttons for shutters


Rockers push-button for shutters
1pole 503520
10
$10 \mathrm{~A}, 250 \mathrm{~V} \sim$

Follow the motor manufacturers` instructions!
I on page T5
■ with mechanical and electrical interlocking to prevent mutual activation
■ with plug-in terminals


I on page T5

Group rockers push-button
4 NO, common input 503404
terminal
$10 \mathrm{~A}, 250 \mathrm{~V} \sim$
Follow the motor manufacturers` instructions!
Can be illuminated using neon lamp unit order no. 160002

Connection terminals IEC 60669-1
■ with 0-position (rocker centre bearing)
■ also suitable as push-button for shutters 2gang
■ for illumination

- with screw terminals

Order no.
Packing
unit

## Key push-buttons for shutters


key push-button for shutters for profile half cylinders

| 1pole | 383110 | 10 |
| :--- | :--- | :--- |

2pole 38321010
$10 \mathrm{~A}, 250 \mathrm{~V}$
I on page T5 Not suitable for flush-mounted splash protected IP44!
Follow the motor manufacturers` instructions!
Centre plate order no. 1504 .., 1506 ..
Profile half cylinder see module inserts / accessories order no. 1818 01, 1818
$\square$ for master-key systems

- without spreader claws
- with screw terminals


## PILOT LAMPS

Push-buttons and pilot lamps


I on page T5
Momentary-contact current max. 2 A;
Incandescent lamp power max. 2 W

Centre plate order no. 1124 .., 1165 .., 1234 .., 1235 .., 1530 ..
Cover order no. 124700 04, 1280, 1281, 1282, 1283
Push-button order no. 1279 ..
LEDs and neon lamps E10 - see Modul inserts /
accessories order no. 1601, 1678 ..

- can be illuminated with neon lamp E10
$\square$ for illumination and monitoring circuit
- with screw terminals


Order no.


| Cover for push-button and pilot lamp E10 |  |  |
| :--- | :---: | :---: |
| clear transparent | $\mathbf{1 2 8 0}$ | 10 |
| red transparent | $\mathbf{1 2 8 1}$ | 10 |
| yellow transparent | $\mathbf{1 2 8 2}$ | 10 |
| green transparent | $\mathbf{1 2 8 3}$ | 10 |

For push-button and pilot lamp E10 order no. 5100 40, 5101 .., 511215

Knob for push-button and pilot lamp E10

| clear transparent | $\mathbf{1 2 7 9} \mathbf{0 2}$ | 10 |
| :--- | :--- | :--- |
| red transparent | $\mathbf{1 2 7 9}$ | 10 |
| green transparent | $\mathbf{1 2 7 9} \mathbf{0 3}$ | 10 |

green transparent 127903
button diameter $26,5 \mathrm{~mm}$

For push-button and pilot lamp E10 order no. 5100 40, 5101 .., 511215


Pilot lamp E14
513102
10
250 V~
Incandescent lamp power max. 3 W ; Lamp base length max. $23,5 \mathrm{~mm}$

Centre plate order no. 1167 .., 1198 ..
Cover order no. 1220, 1230, 1231, 1232
LEDs and glow lamps E14-see Modul inserts / accessories order no. 1610 .., 1679 ..

- with screw terminals

| Accessories |  |  |  |
| :--- | :--- | :--- | :--- |
|  | Incandescent lamp E14 <br> for pilot lamp <br> with flat cover | $\mathbf{1 6 1 0} 03$ | 100 |
| only for pilot lamp <br> with high cover | $\mathbf{1 6 1 0} 13$ | 100 |  |

230 V~, 3 W

For pilot lamp E14 order no. 5130 40, 5131 02, 5152, 517215

| - | LED lamp E14 |  |  |
| :---: | :---: | :---: | :---: |
|  | white | 1679 | 10 |
|  | red | 167901 | 10 |
|  | yellow | 167902 | 10 |
|  | green | 167903 | 10 |
|  | blue | 167904 | 10 |
|  | Operating temperature $-40-+70^{\circ} \mathrm{C}$; LED service life ${ }^{1}$ white/coloured approx. 20 000/ 50000 hours |  |  |
|  | For pilot lamp E14 order no. 5130 40, 5131 02, 5152, 517215 |  |  |
|  | $\square$ for light signal with flat and high cover |  |  |
|  | ${ }^{1}$ Typ. up to approx. $50 \%$ of the output brightness |  |  |

[^0]Order no.

## Cover for pilot lamp E14

clear transparent, flat 122010
clear transparent, High 123010
red transparent, High 123110
green transparent, High 123210

For pilot lamp E14 order no. 5130 40, 513102 517215

## LED pilot lamps



## LED orientation light

2951
1
$230 \mathrm{~V} \sim, 50 \mathrm{~Hz}$
Power consumption 1,8 W/2 VA;
Light intensity (white) 1,2 cd;
Operating temperature $-15-+40^{\circ} \mathrm{C}$
Cover order no. 1248 ..

■ e.g. for lighting of steps or as a point of reference in dark rooms

- light colours white, blue, red, green, orange and colour sequence adjustable via control input
- individual colour from colour sequence can be saved permanently via control input
- LED brightness continuously adjustable
- with 4 RGB LEDs



## LED signal light

## 2952

1
$230 \mathrm{~V} \sim, 50 \mathrm{~Hz}$
Power consumption 1 W/5,6 VA;
Light intensity (red/green) 0,1 cd/0,3 cd;
Operating temperature $-15-+40^{\circ} \mathrm{C}$
Cover order no. 1248 ..

■ signalling systems for surgeries, conference rooms, hotel rooms, etc.
■ homogenous illumination of the separately switchable red and green halves
■ with 4 monochrome LEDs

## Info pilot lamp



Info pilot lamp

## 2949

$230 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}$
Use only in conjunction with info pilot lamp cover.
I on page T29 Info pilot light cover order no. 1345..
Cover plate order no. 1289 ..

■ with screw terminals

## Accessories

| Cover plate for info pilot lamp cover |  |  |
| :--- | :--- | :--- |
| red | $\mathbf{1 2 8 9}$ | 10 |
| green | $\mathbf{1 2 8 9} \mathbf{0 3}$ | 10 |

Info pilot light cover order no. 1345 ..

Order no.


Order no.
Packing unit


I on page T6

## Stereo loudspeaker socket outlet

 45050110
Conductor cross-section max. $2,5 \mathrm{~mm}^{2}$
For only 1 loudspeaker socket use miniature connector insert order no. 4505 and loudspeaker socket order no. 1800.

Centre plate order no. 1184 .., 1185 .., 1196 ..
DIN EN 60130-9
■ with 2 integral speaker sockets

- with screw terminals


Miniature connector insert
4505
10
For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.
Centre plate order no. 1184 .., 1185 .., 1196 ..
Loudspeaker socket order no. 1800
For flange cover with 22.2 mm hole pitch to
DIN 41529
Circular plug-in connector:
Cannon;
Conrad Electronic;
Dr. Ing. Sieger;
Farnell;
Hirschmann;
Lumberg;
Monacor;
RS Components
■ for 1 or 2 connectors

- for loudspeaker sockets
$\square$ for diode plug-in devices
- for miniature plug-in devices



## Loudspeaker jack

black 180010
Conductor cross-section max. $2,5 \mathrm{~mm}^{2}$

For miniature connector insert order no. 4505, 4508 ..
I on page T6
DIN EN 60130-9

- for miniature connector insert
- with screw terminals


## Multimedia sockets

## Cinch module set audio <br> polar white/red 19891

Conductor diameter 0,5-0,65 mm (AWG 24-22);
Conductor cross-section 0,2-0,325 mm²
(AWG 24-22);
Module dimensions (W x H x D) $15 \times 18 \times 35 \mathrm{~mm}$
I on page T63
For central plate order no. 1427.
For supporting plate order no. 094559 ..
$\square$ with 2 Cinch sockets and module carriers
$\square$ with tool free cutting terminals

Order no.


Cinch module video
polar white/yellow 19921
Conductor diameter 0,5-0,65 mm (AWG 24-22);
Conductor cross-section 0,2-0,325 mm²
(AWG 24-22);
Dimensions (W x H x D) $15 \times 18 \times 35 \mathrm{~mm}$
I on page T63
For central plate order no. 1427.
For supporting plate order no. 094559 ..
$\square$ with cinch socket and module carrier

- with tool free cutting terminals


## VGA module

polar white/black 19941
Dimensions (W x H x D) $31 \times 18 \times 35 \mathrm{~mm}$; Conductor cross-section max. $1,5 \mathrm{~mm}^{2}$

I on page T63 For central plate order no. 1427.
For supporting plate order no. 094559 ..

- with a 15pole D-subminiature socket

■ SVGA compatible

- occupies 2 MINI-COM module spaces in the cover
- with screw-in lift terminals



## S-Video module

polar white/black 19931
Conductor diameter 0,5-0,65 mm (AWG 24-22);
Conductor cross-section $0,2-0,325 \mathrm{~mm}^{2}$
(AWG 24-22);
Dimensions (W x H x D) $15 \times 18 \times 35 \mathrm{~mm}$
I on page T63
For central plate order no. 1427 ..
For supporting plate order no. 094559 ..
with S-Video and module carrier
■ with tool free cutting terminals

## Blank module

polar white, 1gang 19901
Dimensions (W x H x D) $15 \times 18 \times 35 \mathrm{~mm}$

For central plate order no. 1427 ..
For supporting plate order no. 094559 ..

Order no.

|  | Order no. $\begin{array}{r}\text { Packing } \\ \text { unit }\end{array}$ |  | Order no. $\begin{array}{r}\text { Packing } \\ \text { unit }\end{array}$ |
| :---: | :---: | :---: | :---: |
| Aerial sockets |  | I on page T61 | Aerial socket 3-hole single box |
|  | Aerial socket 2-hole single box |  | $75 \Omega 4522$ |
|  | 450210 |  |  |
|  | $75 \Omega$ |  | Broadband technology 5-2400 MHz; |
|  | Broadband technology 4-2400 MHz; |  | Attenuation at $4-40 \mathrm{MHz} 2 \mathrm{~dB}$; <br> Attenuation at $47-862 \mathrm{MHz} 1,5 \mathrm{~dB}$; <br> Attenuation at $950-2200 \mathrm{MHz} 2,5 \mathrm{~dB}$ |
|  | Attenuation at $4-862 \mathrm{MHz} 4 \mathrm{~dB}$; |  |  |
|  | Attenuation at $950-2200 \mathrm{MHz} 5 \mathrm{~dB}$; |  |  |
|  | Reverse channel compatible 4-2400 MHz |  |  |
|  | Not suitable as terminal box. |  | Centre plate order no. 1039 .., 1200 .., 1201 .., 1202 .., 1203 .. |
|  | Centre plate order no. 1039 .., 1200 .., 1201 .., 1202 .., 1203 .. |  | IEC 169-2 and EN 50083-1, -2, -4 |
|  |  |  | Shielding efficiency EMC safety class A |
|  | IEC 169-2 and EN 50083-1 |  | for single and distributor SAT systems |
|  | Shielding efficiency EMC safety class A |  | for community and broadband cable systems for terrestrial reception |
|  | $\square$ for community and broadband cable systems |  | $\square$ for analogue and digital transmission |
|  | $\square$ for single and distributor SAT systems |  | - in star structure or decoupled spur lines |
|  | $\square$ for terrestrial reception |  | ■ remote supply via F-socket |
|  | $\square$ for analogue and digital transmission$\square$ in star structure or decoupled spur lines |  | - DC voltage conducting |
|  |  |  |  | ■ with screw terminals |
|  | ■ in star structure or decoupled spur lines ■ remote supply via output socket |  |  |  |
|  | ■ DC voltage conducting■ with screw terminals |  | I on page T61 | Aerial socket 3-hole throughpass socket |
|  |  |  |  |  |
|  | Aerial socket 2-hole throughpass socket | $75 \Omega$ |  |  |
|  | $4515 \quad 10$ | Attenuation at $40-862 \mathrm{MHz} 10 \mathrm{~dB}$; |  |  |
|  |  | Attenuation at 950-2400 MHz 11 dB ; |  |  |
|  |  | Attenuation at $40-470 \mathrm{MHz} 1,5 \mathrm{~dB}$; |  |  |
|  | Broadband technology 4-2400 MHz; Attenuation 15 dB ; | Attenuation at $470-862 \mathrm{MHz} 2 \mathrm{~dB}$; |  |  |
|  | Attenuation at 950-2200 MHz 2 dB ; | Attenuation at $950-2400 \mathrm{MHz} 3,5 \mathrm{~dB}$ |  |  |
|  | Attenuation at $4-40 \mathrm{MHz} 1 \mathrm{~dB}$; |  |  |  |
|  | Attenuation at $47-862 \mathrm{MHz} \mathrm{0,8} \mathrm{dB;}$Reverse channel compatible $4-2400 \mathrm{MHz}$ | Centre plate order no. 1039 .., 1200 .., 1201 .., 1202 .., 1203 .. <br> Terminating resistor order no. 4503 |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  | Centre plate order no. 1039 .., 1200 .., 1201 .., 1202 .., 1203 .. |  | IEC 169-2 and EN 50083-1, -2, -4 |  |
|  |  |  |  |  |
|  | For central plate order no. 1486 .. |  | Shielding efficiency EMC safety class A |  |
|  | Terminating resistor order no. 4503 |  | $\square$ for SAT house distributors without supply voltage, |  |
|  | IEC 169-2 and EN 50083-1, -2, -4 |  | - for community and broadband cable systems |  |
|  | Shielding efficiency EMC safety class A |  | for terrestrial reception |  |
|  | $\square$ for community and broadband cable systems |  | $\square$ for analogue and digital transmission |  |
|  | $\square$ for SAT house distributors |  | - in tree structure and trunk lines |  |
|  | - for terrestrial reception |  | ■ disables DC voltage |  |
|  | $\square$ for analogue and digital transmission |  | - with decoupling device |  |
|  | - in tree structure and trunk lines |  | - with screw terminals |  |
|  |  | $\square$ disables DC voltage |  |  |
|  |  |  |  |  |  |
|  | $\square$ with screw terminals |  |  |  |

Order no.


Aerial socket 3-hole throughpass socket 4593
$75 \Omega$
Broadband technology 40-2400 MHz;
Attenuation at $40-862 \mathrm{MHz} 10 \mathrm{~dB}$;
Attenuation at $950-2400 \mathrm{MHz} 11 \mathrm{~dB}$;
I on page $\mathbf{T 6 1}$
Attenuation at $40-470 \mathrm{MHz} 1,5 \mathrm{~dB}$;
Attenuation at $470-862 \mathrm{MHz} 2 \mathrm{~dB}$;
Attenuation at $950-2400 \mathrm{MHz} 3,5 \mathrm{~dB}$
In unicable systems, the last antenna socket must be closed with a terminating resistor (available in specialist shops) suitable for DC.

Centre plate order no. 1039 .., 1200 .., 1201 .., 1202 .., 1203 ..
Use aerial socket 3-hole single box as terminal box order no. 4522

IEC 169-2 and EN 50083-1, -2, -4 Shielding efficiency EMC safety class A

- for SAT house distributors
- suitable for unicable
- for community and broadband cable systems
- for terrestrial reception
- for analogue and digital transmission
- in tree structure and trunk lines
- DC voltage conducting
- with decoupling device
- with screw terminals



## Aerial socket 4-hole single box

4594
1
$75 \Omega$
Broadband technology 5-2400 MHz;
Attenuation terrestrial/BC 2-3 dB;
Attenuation, SAT range 2-6dB
I on page T61
For central plate order no. 1484 ..
IEC 169-2 and EN 50083-1, -2, -4
Shielding efficiency EMC safety class A

- for single and distributor SAT systems
- for community and broadband cable systems
- for terrestrial reception
- for analogue and digital transmission

■ in star structure or decoupled spur lines

- remote supply via F-sockets
- for multi-switch systems
- for simultaneous connection of radio and TV receiver as well as 2 independent SAT receivers
- with 2 independent SAT outputs ( $F$-sleeves)
- with 2 equal IEC outputs (socket and plug)
- also to add SAT programmes in broadband cable systems
- DC voltage conducting

■ with screw terminals

|  | Order no. $\begin{array}{r}\text { Packing } \\ \text { unit }\end{array}$ |
| :---: | :---: |
| Terminating resistors |  |
| Terminating resistor |  |
|  | 4503 1 |
| - | $75 \Omega$ |
|  | Broadband technology 0,15-2400 MHz |
| I on page T61 | For aerial socket 2-hole throughpass socket order no. 4515 |
|  | For aerial socket 3-hole throughpass socket order no. 4523 |
|  | $\square$ for use in last through-box |
|  | ■ for non-reflective termination of a trunk cable |

## DATA COMMUNICATIONS/TELECOMMUNICATIONS

FCC socket outlets


I on page T64

## FCC socket outlet 8(4)pole

white 4568
$125 \mathrm{~V}=, 1 \mathrm{~A}$
Transmission bandwidth up to 16 MHz ;
Transition resistance $<20 \mathrm{~m} \Omega$;
Conductor diameter max. 1 mm ;
Installation depth 22 mm

Centre plate order no. 1407 .., 1408 ..
For central plate order no. 1468 ..
Design to DIN EN 60603-7 and IEC 603-7
■ cat. 3

- for connectors RJ11, RJ12 and RJ45,

ISDN-compatible

- with $45^{\circ}$ oblique outlet
- with screw terminals


I on page T64

## FCC socket outlet 8pole

white 4538
$125 \mathrm{~V}=, 1 \mathrm{~A}$
Transmission bandwidth up to 16 MHz ;
Transition resistance $<20 \mathrm{~m} \Omega$;
Conductor diameter max. 1 mm ;
Installation depth 22 mm

Centre plate order no. 1407 .., 1408 ..
For central plate order no. 1468.
Design to DIN EN 60603-7 and IEC 603-7
■ cat. 3
■ for connectors RJ11, RJ12 and RJ45, ISDN-compatible

- with $45^{\circ}$ oblique outlet

■ with screw terminals

Order no.
Order no.
Packing


I on page T64
FCC socket outlet $\mathbf{2 \times 8 ( 4 ) \text { pole }}$
white $\quad \mathbf{4 5 6 2}$
$125 \mathrm{~V}=, 1 \mathrm{~A}$
Transmission bandwidth up to 16 MHz ;
Transition resistance $<20 \mathrm{~m} \Omega$;
Conductor diameter max. 1 mm ;
Installation depth 22 mm

Centre plate order no. 1409 .., 1410 ..
For central plate order no. 1469 ..
Design to DIN EN 60603-7 and IEC 603-7
■ cat. 3
■ for connectors RJ11, RJ12 and RJ45, ISDN-compatible

- parallel contacted sockets
- with $45^{\circ}$ oblique outlet
- with screw terminals


1 on page T64

## FCC socket outlet $2 \times 8$ (4)pole

 with switchable resistorswhite
4592
10
$125 \mathrm{~V}=, 1 \mathrm{~A}$
Transmission bandwidth up to 16 MHz ;
Transition resistance $<20 \mathrm{~m} \Omega$;
Resistor $100 \Omega$;
Conductor diameter max. 1 mm;
Installation depth 22 mm

Centre plate order no. 1409 .., 1410 ..
For central plate order no. 1469 ..
Design to DIN EN 60603-7 and IEC 603-7
■ as socket outlet for ISDN-So-Bus installations
$\square$ for telephone installations as single box

- cat. 3

■ for connectors RJ11, RJ12 and RJ45, ISDN-compatible
■ parallel contacted sockets
■ with $45^{\circ}$ oblique outlet
■ with screw terminals


1 on page $T 64$

## FCC socket outlet 8/8pole <br> white 4539

10
$125 \mathrm{~V}=, 1 \mathrm{~A}$
Transmission bandwidth up to 16 MHz ;
Transition resistance < $20 \mathrm{~m} \Omega$;
Conductor diameter max. 1 mm ;
Installation depth 22 mm

Centre plate order no. 1409 .., 1410 ..
For central plate order no. 1469 ..
Design to DIN EN 60603-7 and IEC 603-7

- cat. 3
- for connectors RJ11, RJ12 and RJ45, ISDN-compatible
- with $45^{\circ}$ oblique outlet

■ with screw terminals


1 on page T64
Centre plate order no. 1407 .., 1408
For central plate order no. 1468 ..
Cat.5e E DIN IEC 60603-7-3
Protective screen DIN EN 55022 class B
Colour code A and B EIA/TIA 568A
■ housing out of tin diecasting

- cat. 5 e class D

■ suitable for PoE+
■ only suitable for RJ45 plugs

- with $45^{\circ}$ oblique outlet

■ with LSA + terminals


I on page T64
FCC socket outlet 8pole shielded
4586
10
$72 \mathrm{~V}=, 0,5 \mathrm{~A}$
Transmission bandwidth up to 500 MHz ;
Signal contact resistance $20 \mathrm{~m} \Omega$;
Shield contact resistance $100 \mathrm{~m} \Omega$;
Conductor diameter 0,4-0,63 mm (AWG 26-22);
Installation depth 31 mm

Centre plate order no. 1407 .., 1408 ..
For central plate order no. 1468 ..
real.cat.6a E DIN IEC 60603-7-51
Protective screen DIN EN 55022 class B
Colour code A and B EIA/TIA 568A
$\square$ housing out of tin diecasting

- cat.6A, Class EA, shielded
- suitable for PoE+

■ only suitable for RJ45 plugs
■ with $45^{\circ}$ oblique outlet

- with LSA + terminals


1 on page T64
FCC socket outlet 8/8pole shielded 4555
$72 \mathrm{~V}=, 0,75 \mathrm{~A}$
Transmission bandwidth up to 100 MHz ;
Transition resistance $<20 \mathrm{~m} \Omega$;
Conductor diameter 0,4-0,63 mm (AWG 26-22);
Installation depth 31 mm

Centre plate order no. 1409 .., 1410 ..
For central plate order no. 1469 ..
Cat.5e E DIN IEC 60603-7-3
Protective screen DIN EN 55022 class B
Colour code A and B EIA/TIA 568A
■ housing out of tin diecasting
■ cat.5e class D
■ suitable for $\mathrm{PoE}+$
■ only suitable for RJ45 plugs

- with $45^{\circ}$ oblique outlet

■ with LSA + terminals

Order no.
Order no.
unit


FCC socket outlet 8/8pole shielded 4587
$72 \mathrm{~V}=, 0,5 \mathrm{~A}$
Transmission bandwidth up to 500 MHz ;
Transition resistance < $20 \mathrm{~m} \Omega$;
Signal contact resistance $20 \mathrm{~m} \Omega$;
I on page T64 Shield contact resistance $100 \mathrm{~m} \Omega$;
Conductor diameter 0,4-0,63 mm (AWG 26-22);
Installation depth 31 mm

Centre plate order no. 1409 .., 1410 ..
For central plate order no. 1469 ..
real.cat.6a E DIN IEC 60603-7-51
Protective screen DIN EN 55022 class B
Colour code A and B EIA/TIA 568A

- housing out of tin diecasting
- cat.6A, Class EA, shielded
- suitable for $\mathrm{PoE}+$
- only suitable for RJ45 plugs
- with $45^{\circ}$ oblique outlet
- with LSA + terminals


Modular UAE socket outlet 8/8-pin shielded
$72 \mathrm{~V}=, 0,5 \mathrm{~A}$
Transmission bandwidth up to 500 MHz ;
Signal contact resistance $<20 \mathrm{~m} \Omega$;
Shield contact resistance $100 \mathrm{~m} \Omega$;
Copper cable diameter solid 0,51-0,64 mm (AWG
24-22);
Copper cable diameter solid flexible 0,4-0,53 mm
(AWG 26);
Installation depth 35 mm
Centre plate order no. 1033 .., 1034 .., 1035 .., 1040 .. For central plate order no. 1458 ..
real.cat.6a E DIN IEC 60603-7-51
Protective screen DIN EN 55022 class B
Colour code A and B EIA/TIA 568A

- die-cast zinc housing
- cat.6A, Class EA, shielded
- suitable for $\mathrm{PoE}+$

■ with screen contacting $360^{\circ}$ and cable clamp

- with straight outlet
- only suitable for RJ45 plugs
- with optional dust protection hinged covers
- with IDC terminals

|  | Modular UAE socket outlet 8/8-pin |
| :---: | :---: |
|  | *4584 |
|  | Rated voltage $72 \mathrm{~V}=$; |
|  | Rated current 0,5 A; |
|  | Transmission bandwidth up to 500 MHz ; <br> Signal contact resistance < $200 \mathrm{~m} \Omega$; <br> Copper cable diameter solid 0,51- 0,64 ; <br> Copper cable diameter solid flexible 0,4-0,53; Installation depth 35 mm |
|  | Centre plate order no. 1033 .., 1034 .., 1035 .., 1 For central plate order no. 1458 .. |
|  | real.cat.6a E DIN IEC 60603-7-51 |
|  | Colour code A and B EIA/TIA 568A |
|  | - housing made of ABS |
|  | - cat.6A, Class EA, unshielded |
|  | - suitable for PoE+ |
|  | - only suitable for RJ45 plugs |
|  | - with straight outlet |
|  | - with optional dust protection hinged covers |
|  | with IDC terminals |



## Modular jack 6pole

black 1829
5
Core diameter max. 1,2 mm;
Conductor diameter 0,4-0,65 mm (AWG 25-22);
Indexing dimension (W xH) approx. $14,9 \times 19,4 \mathrm{~mm}$
I on page T64
Mounting plates see acessories order no. 111116 For supporting plate 1gang order no. 454001 For supporting plate 2gang order no. 454101

RJ12, cat. 3

- with cutting terminals


Modular jack 8pole
black 1833
Core diameter max. 1,2 mm;
Conductor diameter $0,4-0,65 \mathrm{~mm}$ (AWG 25-22);
Indexing dimension ( $\mathrm{W} \times \mathrm{H}$ ) approx. $14,9 \times 19,4 \mathrm{~mm}$
I on page T64

Mounting plates see acessories order no. 111116
For supporting plate 1gang order no. 454001
For supporting plate 2gang order no. 454101

RJ45, cat.3, ISDN-compatible

- with cutting terminals


Order no.
Order no.
unit

## Supporting plate with green reception 1gang 454004 <br> 10



Indexing dimension $(\mathrm{W} \times \mathrm{H})$ approx. $17 \times 18 \mathrm{~mm}$
For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.
Centre plate order no. 1170 ..
Modular jacks:
Commscope-Systimax, gigaSpeed, PowerSUM, order no. MGS300BH-..., M1BH-..., MPS100E-..., MGS500-..., MGS400-..., MGS600..

- for centre plate with dust protector slider

■ for Commscope-Systimax Modular Jacks cat. 5 and cat. 6

- without spreader claws



## Supporting plate with green reception 2gang 454104 <br> 10

Indexing dimension $(\mathrm{W} \times \mathrm{H})$ approx. $17 \times 18 \mathrm{~mm}$
For detailed information on relevant articles of the
listed manufacturers please see Berker online catalogue.
Centre plate order no. 1181 .., 1182 ..
Modular jacks:
Commscope-Systimax, gigaSpeed, PowerSUM, order no. MGS300BH-..., M1BH-..., MPS100E-..., MGS500-..., MGS400-..., MGS600..

- for centre plate with dust protector sliders
$\square$ for Commscope-Systimax Modular Jacks cat. 5 and cat. 6
■ without spreader claws



## Supporting plate with brown reception 2gang

 45410710
Indexing dimension ( $\mathrm{W} \times \mathrm{H}$ ) approx. $14,9 \times 19,5 \mathrm{~mm}$
For detailed information on relevant articles of the
listed manufacturers please see Berker online catalogue.
Centre plate order no. 1181 .., 1182 ..

## Modular jacks:

Harting;
Krone;
Reichle\&De-Massari;
Thomas \& Betts;
Fibre-optic couplings:
3M;
Krone;
mvk
$\square$ for centre plate with dust protector sliders
■ for Krone modular jacks cat.5, cat.5e and cat. 6

- without spreader claws



## Supporting plate with orange reception 2gang

 *454109Indexing dimension (W x H) approx. 14,9×19,4 mm
For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.
Centre plate order no. 1181 .., 1182 ..
Modular jacks:
BTR;
Dätwyler

- for centre plate with dust protector sliders
- without spreader claws


## Connector inserts



## Miniature connector insert

4505

For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.
Centre plate order no. 1184 .., 1185 .., 1196 ..
Loudspeaker socket order no. 1800
For flange cover with 22.2 mm hole pitch to DIN 41529
Circular plug-in connector:
Cannon;
Conrad Electronic;
Dr. Ing. Sieger;
Farnell;
Hirschmann;
Lumberg;
Monacor;
RS Components

- for 1 or 2 connectors
- for loudspeaker sockets
$\square$ for diode plug-in devices
- for miniature plug-in devices



## BNC/TNC connector insert

white, for shaft $\varnothing 10 \mathrm{~mm} 4577$
white, for shaft $\varnothing 13 \mathrm{~mm} 4579$
For threaded shaft lengths $>8 \mathrm{~mm}$
For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.
Centre plate order no. 1184 .., 1185 .., 1196 ..
BNC built-in jack order no. 1840
$\square$ for non-rotating installation of BNC and TNC sockets

## Data connectors

## BNC panel jack

with shaft $\varnothing 10 \mathrm{~mm}$
1840
10
$50 \Omega$

For mounting plate order no. 111214
For BNC/TNC connector insert order no. 4577
IEC 169-8
■ with solder connection

Order no.
Order no
Packing

| D-subminiature connector |  |
| :--- | ---: |
| 9pole | $\mathbf{1 8 3 9}$ |
| 15pole | $\mathbf{1 8 3 5}$ |
| 25pole (without moun- | $\mathbf{1 8 3 4}$ |
| ting adapter) |  |

Conductor diameter max. 0,85 mm (AWG 20)
Mounting plates see acessories order no. 1111 01, 1111 02, 111103
For central plate order no. 1411 .., 1470 ..

■ with mounting adapter

- with interlock bolt for screw plug M 3

■ contacts: nickel, gold-plated
■ with solder connection


Mounting adapter for D-subminiature connector
for 9pole 1841
for 15pole 1842

For central plate order no. 1411 .., 1470 ..

## HOSPITAL INSTALLATION

Socket outlets for floating output
DR Double pole socket outlet for floating output

Conductor cross-section max. $6 \mathrm{~mm}^{2}$
For separate earthing of medical-technical equipment and lab equipment.
For central plate order no. 1403 ..
Centre plate order no. 17050104
Right angle plug order no. 4605
Connection pins DIN 42801
■ without spreader claws
■ with screw terminals


Built-in socket for floating output
$4604 \quad 1$
Conductor cross-section max. $6 \mathrm{~mm}^{2}$
For separate earthing of medical-technical equipment and lab equipment.
Centre plate order no. 1063 .., 1070 ..
For central plate order no. 1431 ..
Right angle plug order no. 4605
Connection pins DIN 42801
■ for centre plate with cut-out dia. 18.8 mm
■ with a green yellow signal ring
Right angle plug for floating output 4605
Conductor cross-section max. $6 \mathrm{~mm}^{2}$
For separate earthing of medical-technical equipment and lab equipment.
For double pole socket outlet for floating output order no. 1061
For built-in socket for floating output order no. 4604
For connection pins according to DIN 42801
■ with yellow insulating cover and crimp connection
$\square$ for socket outlet for floating output and wall box

|  | Order no. $\begin{array}{r}\text { Packing } \\ \text { unit }\end{array}$ |
| :---: | :---: |
| ACCESSORIES |  |
| Neon lamp units |  |
|  | Neon lamp unit for SCHUKO socket outlet with indicator lamp <br> polar white, 230 V , 1609 <br> 1.5 mA <br> for replacement need |
| Profile half cylinder |  |
| I on page T5 | Profile half cylinder <br> With 5 tumblers to DIN 18252 <br> ■ 3 keys included |
| Extension claws |  |
|  | Push-on extension claw $\begin{equation*} 1913 \tag{50} \end{equation*}$ <br> Extension 15 mm <br> Suitable for the new socket outlet generation from approx. 2011. <br> Not for electronics inserts! |
| NEW | Replacement claw $\text { *1914 } 20$ <br> Extension 15 mm <br> Suitable for the new socket outlet generation from approx. 2011. <br> Not for electronics inserts! |
| ACCESSORIES |  |
| Protective covers |  |
| NEW | Protective cover for SCHUKO socket outlets and switches <br> grey $\begin{equation*} \text { * } 1849 \tag{10} \end{equation*}$ <br> Socket outlets of the new generation (from approx. 2011) and switches are protected against dirt and damage by flush-mounted inserts without covers for interior fittings or renovation measures. |
| Burkes | Protective cover for switches, push-buttons, push-button BCU and group push-button BCU <br> grey <br> \#1847 <br> 10 <br> Protective cover against dirt and damage of flushmounted inserts without cover for interior fittings or renovation measures. |
|  | Protective cover for SCHUKO socket outlets grey <br> 1848 <br> 10 <br> Protective cover against dirt contamination and damage of flush-mounted inserts without cover during interior decoration or renovation work. |

## Bottom plates

Self-extinguishing base plate 1gang
white 10211210
For surface-mounted frames of design lines Modul 2, Arsys and Q. 1 .
For flush-mounted frames 1gang order no. 1029 ..

- with imprint
- suitable for mounting on flammable base surface


## Self-extinguishing base plate 2gang <br> white 10212210

For surface-mounted frames of design lines Modul 2, Arsys and Q.1.
For flush-mounted frames 2gang order no. 1030 ..

- with imprint
- suitable for mounting on flammable base surface


## Self-extinguishing base plate 3gang

white 10213210

For surface-mounted frames of design lines Modul 2, Arsys and Q. 1.
For flush-mounted frames 3gang order no. 1031 ..
$\square$ with imprint
■ suitable for mounting on flammable base surface

## House electronics

## For standard and surface ranges, electronic inserts/components

Electronic components open up new possibilities for modern building installations. High-quality electronic devices from Berker thus offer a convenient alternative to conventional switch elements.

- More functions thanks to intelligent electronic controls
- More variability thanks to functional covers that can be changed at any time (controller, radio button, presence detector, etc.)
- More flexibility for modernisation, renovation and extensions

Please note: only mount in conjunction with standard commercial wall boxes according to DIN 49073 Part 1.


Berker by :hager


| Rotary dimmers | 44-46 |
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Order no.


Order no.

## Tronic rotary dimmer

286710
1
$230 / 240 \mathrm{~V} \sim, 50 \mathrm{~Hz}$
230 V incandescent and halogen lamps 20-360 W;
Electronic transformers 20-360 W;
Universal power boosters max. 10 á 500 W;
Tronic power boosters built-in max. 10;
Axial dimension diameter 4 mm
Trouble-free operation will be obtained only with
Berker Tronic transformers.
Cover plate order no. 1130 ..
Centre plate order no. 1134 .., 1135 .., 1137 ..


- with change-over pressure switch
- bulb-preserving soft startup
- short-circuit and overload proof (electronic fuse)
- phase cut-off
- expandable by universal power boosters RMD Plus with load cable switched in parallel
- with screw terminals

I) on page T9


## Rotary dimmer with soft-lock

2875
1
$230 \mathrm{~V} \sim, 50 \mathrm{~Hz}$
230 V incandescent and halogen lamps $60-600 \mathrm{~W}$; Tronic or LV power boosters built-in/RMD max. 10; Axial dimension diameter 4 mm

Possible to change fuse without removing cover.
Cover plate order no. 1130 ..
Centre plate order no. 1134 .., 1135 .., 1137 ..


- with change-over pressure switch
- short-circuit and overload proof (fine-wire fuse)
with spare fuse
- phase cut-on
- voltage test possible without dismantling
- with plug-in terminals


I on page T9

## Rotary dimmer with soft-lock

2885
1
$230 / 240 \mathrm{~V} \sim, 50 \mathrm{~Hz}$
230 V incandescent and halogen lamps 100-1000 W;
Tronic or LV power boosters built-in/RMD max. 10; Axial dimension diameter 4 mm

Cover plate order no. 1130 ..
Centre plate order no. 1134 .., 1135 .., 1137 ..


- with change-over pressure switch
- short-circuit and overload proof (electronic fuse)
- phase cut-off
- with screw terminals

Order no.


I on page T9
LV power boosters built-in max. 10;
Axial dimension diameter 4 mm
Possible to change fuse without removing cover.
Cover plate order no. 1130 ..
Centre plate order no. 1134 .., 1135 .., 1137 ..


- with change-over pressure switch
- short-circuit and overload proof (fine-wire fuse)
- with spare fuse
- phase cut-on
- with terminal for base load from mains isolator
- voltage test possible without dismantling
- basic brightness programmable
- with plug-in terminals



## Tronic rotary dimmer with soft-lock

 28741
$230 \mathrm{~V} \sim, 50 \mathrm{~Hz}$
230 V incandescent and halogen lamps $20-525 \mathrm{~W}$; Electronic transformers 20-525 W;
Universal power boosters max. 10 á 500 W ;
Tronic power boosters built-in max. 10;
Axial dimension diameter 4 mm
Trouble-free operation will be obtained only with Berker Tronic transformers.

Cover plate order no. 1130 ..
Centre plate order no. 1134 .., 1135 .., 1137 ..


- with change-over pressure switch
- bulb-preserving soft startup
- short-circuit and overload proof (electronic fuse)
- phase cut-off
- with terminal for base load from mains isolator
- voltage test possible without dismantling
- expandable by universal power boosters RMD Plus with load cable switched in parallel
- with plug-in terminals

Order no.
unit

## Universal rotary dimmer with soft-lock 286110 1

$230 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}$
230 V incandescent and halogen lamps 50-420 W; Electronic transformers 50-420 W;
Dimmable conventional transformers 50-420 VA;
I on page T10
Universal power boosters max. 10 phase cut-off á 500 W;
Universal power boosters max. 5 phase cut-on á 420 VA ;
Tronic or LV power boosters built-in/RMD max. 10
for same load type;
Axial dimension diameter 4 mm
Trouble-free operation will be obtained only with Berker Tronic transformers.

Do not connect conventional transformers together with electronic transformers.

Cover plate order no. 1130 ..
Centre plate order no. 1134 .., 1135 .., 1137 ..


■ with extension unit input for universal rotary dimmer extension unit
■ with incremental encoder

- with brightness memory

■ bulb-preserving soft startup
■ short-circuit and overload proof (electronic fuse)

- phase cut-on or cut-off according to load type, self-learning
■ voltage test possible without dismantling
■ expandable by universal power boosters RMD Plus with load cable switched in parallel
- with plug-in terminals


## Rotary dimmer extension units



Universal rotary dimmer extension unit with soft-lock

286210
1
$230 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}$
Number of extension units max. 5;
Axial dimension diameter 4 mm

Cover plate order no. 1130.
Centre plate order no. 1134 .., 1135 .., 1137 ..

■ as extension unit for universal rotary dimmer
$\square$ with incremental encoder
$■$ voltage test possible without dismantling
$\square$ with plug-in terminals

Order no.
Packing


Universal series touch dimmer 2901 1
$230 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}$
230 V incandescent and halogen lamps 50-260 W;
Electronic transformers 50-260 W;
Dimmable conventional transformers 50-260 VA;
I on page T10 Universal power boosters max. 10 phase cut-off 1gang á 500 W ;
Tronic or LV power boosters built-in/RMD max. 10 for same load type

Trouble-free operation will be obtained only with Berker Tronic transformers.

Do not connect conventional transformers together with electronic transformers to one output.

Button order no. 1765 ..

■ for 2 independent lighting groups

- an extension input for both series by means of BLC extension unit
$■$ switch-on brightness retained for series on mains power failure
■ bulb-preserving soft startup
■ short-circuit and overload proof (electronic fuse)
- phase cut-on or cut-off per series according to load type, self-learning
■ with screw terminals


## SPEED CONTROLLERS



296801
1
230/240 V~, 50/60 Hz
Rated motor current and segment current, max.
0,1-2,7 A;
Axial dimension diameter 4 mm
Possible to change fuse without removing cover.
Centre plate order no. 113400 2.., 113500 2..,
113500 89, 113572 .., 113714 24, 113716 26,
113719 29, 1137 2.., 113760 79, 1137892.


■ with rotary on/off switch

- for devices with motory drive

■ additional switching contact for blade control
■ basic speed adjustable
■ short-circuit and overload proof (fine-wire fuse)

- with spare fuse
- phase cut-on
$\square$ with plug-in terminals

Order no.
Packing
unit
DALI CONTROL UNITS


I on page T29
Rotary potentiometer DALI
2897
1
DALI voltage $16 \mathrm{~V}=(9.5 \ldots 22.5 \mathrm{~V}=)$;
Current consumption < 2 mA ;
DALI devices max. 64;
Cable length DALI at $1.5 \mathrm{~mm}^{2}$ max. 200 m ;
Axial dimension diameter 4 mm

Not suitable for combining with other DALI sensors or centres.

Cover plate order no. 1130 ..
Centre plate order no. 1134 .., 1135 .., 1137 ..
DALI draft DIN IEC 60929
Power supply required to DALI specifications IEC 60929

■ with soft-lock

- with on/off pressure switch
- for switching and controlling electr. ballasts and Tronic transformer with DALI interface
$\square$ e.g. for fluorescent lamps and LV halogen lamps
- control is effected by central telegram (broadcast)

■ for wiring in parallel (last potentiometer setting applicable)

- basic brightness programmable
- short-circuit and overload proof (fine-wire fuse)
- with spare fuse
- with screw terminals


Rotary potentiometer DALI with integrated power supply unit
$230 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}$
DALI voltage $16 \mathrm{~V}=$;
Output current max. 52 mA ;
Power consumption >= $1,5 \mathrm{~W}$;
DALI devices max. -; with an active DALI potentiometer 26 ; with 2 active DALI potentiometers 104;
Cable length DALI at $1.5 \mathrm{~mm}^{2} \mathrm{max} .200 \mathrm{~m}$; Axial dimension diameter 4 mm

Not suitable for combining with other DALI sensors or centres.
Cover plate order no. 1130 ..
Centre plate order no. 1134 .., 1135 .., 1137 ..
DALI draft DIN IEC 60929
with soft-lock

- with on/off pressure switch
$\square$ with incremental encoder
- for switching and controlling electr. ballasts and Tronic transformer with DALI interface
- e.g. for fluorescent lamps and LV halogen lamps
- control is effected by central telegram (broadcast)
- parallel connection of max. 4 active DALI potentiometers possible
- supplies the necessary control current for additional DALI users in the active operation to mains vo
- without mains voltage in passive operation on DALI voltage the unit serves as an additional control
- start-up brightness can be stored safe after power failure
- basic brightness programmable
$\square$ short-circuit and overload proof (electronic fuse)
- with screw terminals

CONTROL UNITS 1-10 V


Rotary potentiometer 1-10 V with soft-lock 289110

1
$230 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}$
Switching current 6 A ;
Control current 50 mA ;
Axial dimension diameter 4 mm
I on page T28
In case of excessive making currents use making current limiters order no. 0185.

Ensure same illumination, use only electronic ballasts and fluorescent lamps from the same manufacturers.

Possible to change fuse without removing cover.
When using of LV halogen lamps we recommend Berker Tronic transformer with 1-10 V interface order no. 2977.

Cover plate order no. 1130 ..
Centre plate order no. 1134 .., 1135 .., 1137 ..
Interface to DIN EN 60928
$=\square=\sqrt{\infty}$

- with on/off pressure switch
$\square$ for switching and controlling electronic ballasts and Tronic transformers with 1-10 V interface
- e.g. for fluorescent lamps and LV halogen lamps
$\square$ basic brightness programmable
- short-circuit and overload proof (fine-wire fuse)
- with spare fuse
- with screw terminals


I on page T28
Push-button rotary potentiometer 1-10 V with soft-lock
$289610 \quad 1$

230/240 V~, 50/60 Hz
Momentary-contact current max. 2 A ;
Control current 50 mA ;
Axial dimension diameter 4 mm
In case of excessive making currents use making current limiters order no. 0185.

Ensure same illumination, use only electronic ballasts and fluorescent lamps from the same manufacturers.

Possible to change fuse without removing cover.
When using of LV halogen lamps we recommend Berker Tronic transformer with 1-10 V interface order no. 2977.

Cover plate order no. 1130 ..
Centre plate order no. 1134 .., 1135 .., 1137 ..
Interface to DIN EN 60928
$=\square=-\sqrt{\infty}$
$\square$ with push-button (NO)
$\square$ for activation of pulse relays
$\square$ for controlling electronic ballasts and Tronic transformers with 1-10 V interface

- e.g. for fluorescent lamps and LV halogen lamps

■ short-circuit and overload proof (fine-wire fuse)

- with spare fuse
- with screw terminals

Order no.

## Push-button control unit 1-10 V built-in

 polar white 28721$230 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}$
Switching current 10 A ;
Control current 200 mA ;
Dimensions ( $\mathrm{L} \times \mathrm{W} \times \mathrm{H}$ ) $175 \times 42 \times 18 \mathrm{~mm}$
In case of excessive making currents use making current limiters order no. 0185.

Ensure same illumination, use only electronic ballasts and fluorescent lamps from the same manufacturers.

When using of LV halogen lamps we recommend Berker Tronic transformer with 1-10 V interface order no. 2977.

Neutral conductor necessary!
Interface to DIN EN 60928
$\mu=\square$
■ with extension unit input for BLC extension unit and push-but.(NO) and 1 push-but. operation concept

- alarm zones can be activated individually or linked
- e.g. for fluorescent lamps and LV halogen lamps
- with selectable brightness memory
- bulb-preserving soft startup
- basic brightness programmable
- with screw terminals

Order no.
Packing
unit

## BLC BERKER LIGHT CONTROL

BLC dim inserts


BLC push-button control unit 1-10 V 2903 1
$230 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}$
Control current 50 mA ;
Switching current $3,04 \mathrm{~A}$;
Operating temperature $5-35^{\circ} \mathrm{C}$
Ion page T12
Light scene function (on/off, dimming value) in conjunction with BLC radio button.

In case of excessive making currents use making current limiters order no. 0185 .

To ensure same illumination, use only electronic ballasts and fluorescent lamps from the same manufacturers.

On usage of LV halogen lamps we recommend Berker Tronic transformer with 1-10 V interface order no. 2977.

Neutral conductor necessary!
BLC presence detector with constant light control order no. 170110
BLC ceiling controller order no. 170111
BLC radio button order no. 1760 ..
BLC button order no. 1761 ..
BLC controller 1.1 m IP44 1783 11, 1783 19, 178361 89, 178371 .., 1783
BLC controller 1.1m 178300 .., 1783 02, 1783 09, 178314 04, $17831606,17831909,17836089$, 178370 .., 178389 .., 178390 ..
BLC controller comfort 1.1 m IP44 1784 11, 1784 19,
178461 89, 178471 .., 1784
BLC Wächter Komfort 1,1 m $17840 . ., 178414$ 04, 178416 06, 178419 09, 178460 89, 178470 .., 178489 .., 178490 ..
BLC controller 2.2 m IP44 1786 11, 1786 19, 178661 89, 178671 .., 1786
BLC controller 180 order no. 178600 .., 1786 02, 1786 09, 1786 14 04, 1786 16 06, 17861909 , 178660 89, 178670 .., 178689 .., 178690 .. BLC controller comfort 2.2 m IP44 1787 11, 1787 19, 178761 89, 178771 .., 1787
BLC controller comfort 180 order no. 178700 ..., 1787 02, $178709,17871404,17871606,17871909$, 178760 89, 178770 .., 178789 .., 178790 ..
BLC controller 2.2 m order no. 1788 ..
BLC IR-controller comfort 2.2 m order no. 1789 ..
Interface to DIN EN 60928


- with extension unit input for BLC extension unit, BLC control extension unit and push-button (NO contact)
- for switching and controlling electronic ballasts and Tronic transformers with $1-10 \mathrm{~V}$ interface
- e.g. for fluorescent lamps and LV halogen lamps
- start-up brightness can be stored safe after power failure
- basic brightness programmable
- when cover is detached, the switch status is retained (wallpaper function)
- with screw terminals

Order no.

## BLC touch dimmer LV

2904
1
230 V , $50 / 60 \mathrm{~Hz}$
230 V incandescent and halogen lamps $20-500 \mathrm{~W}$; Dimmable conventional transformers 20-500 VA; LV power boosters built-in max. 10;
I on page T12
Operating temperature $-20-+45^{\circ} \mathrm{C}$

Light scene function (on/off, dimming value) in conjunction with BLC radio button.

Possible to change fuse without removing cover.
BLC presence detector with constant light control order no. 170110
BLC ceiling controller order no. 170111
BLC radio button order no. 1760 ..
BLC button order no. 1761 ..
BLC controller 1.1 m IP44 1783 11, 1783 19,
178361 89, 178371 .., 1783
BLC controller 1.1m 178300 .., 1783 02, 1783 09,
178314 04, 17831606,178319 09, 178360 89, 178370 .., 178389 .., 178390 ..
BLC controller comfort 1.1 m IP44 1784 11, 1784 19, 178461 89, 178471 .., 1784
BLC Wächter Komfort 1,1 m 1784 0.., 178414 04, 17841606,178419 09, 178460 89, 178470 .., 178489 .., 178490 ..
BLC controller 2.2 m IP44 1786 11, 1786 19, 178661 89, 178671 .., 1786
BLC controller 180 order no. 178600 .., 1786 02, $178609,17861404,17861606,17861909$, 178660 89, 178670 .., 178689 .., 178690 .. BLC controller comfort 2.2 m IP44 1787 11, 1787 19, 178761 89, 178771 .., 1787
BLC controller comfort 180 order no. 178700 .., $178702,178709,17871404,17871606,17871909$, 178760 89, 178770 .., 178789 .., 178790 .. BLC controller 2.2m order no. 1788 .. BLC IR-controller comfort 2.2 m order no. 1789 ..


■ with extension unit input for BLC extension unit, BLC control extension unit and push-button (NO contact)

- switch-on brightness memory function

■ bulb-preserving soft startup
$\square$ when cover is detached, the switch status is retained (wallpaper function)
■ short-circuit and overload proof (fine-wire fuse)
$\square$ with spare fuse

- phase cut-on

■ with screw terminals

Order no.


I on page T12
BLC universal touch dimmer 2902

1
$230 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}$
230 V incandescent and halogen lamps 50-420 W; Electronic transformers 50-420 W;
Dimmable conventional transformers 50-420 VA;
Universal power boosters max. 10 phase cut-off á

500 W;
Universal power boosters max. 5 phase cut-on á 420 VA ;
Tronic or LV power boosters built-in/RMD max. 10 for same load type;
Operating temperature $-20-+45{ }^{\circ} \mathrm{C}$;
Installation depth 22 mm
Light scene functions (on/off, dimming value) in conjunction with BLC radio button.

For trouble-free operation we recommend Berker Tronic transformers.

Do not connect conventional transformers together with electronic transformers.

BLC presence detector with constant light control order no. 170110
BLC ceiling controller order no. 170111
BLC radio button order no. 1760 ..
BLC button order no. 1761 ..
BLC controller 1.1 m IP44 1783 11, 1783 19,
178361 89, 178371 .., 1783
BLC controller 1.1m 178300 .., 1783 02, 1783 09,
$17831404,17831606,17831909,17836089$, 178370 .., 178389 .., 178390 ..
BLC controller comfort 1.1 m IP44 1784 11, 1784 19, 178461 89, 178471 .., 1784
BLC Wächter Komfort 1,1 m 1784 0.., 178414 04, $17841606,17841909,178460$ 89, 178470 .., 178489 .., 178490 ..
BLC controller 2.2 m IP44 1786 11, 1786 19, 178661 89, 178671 .., 1786
BLC controller 180 order no. 178600 .., 1786 02, $178609,17861404,17861606,17861909$, 178660 89, 178670 .., 178689 .., 178690 .. BLC controller comfort 2.2 m IP44 1787 11, 1787 19, 178761 89, 178771 .., 1787
BLC controller comfort 180 order no. 178700 ..,
1787 02, 178709 , 178714 04, 178716 06, 17871909 , 178760 89, 178770 .., 178789 .., 178790 ..
BLC controller 2.2 m order no. 1788 ..
BLC IR-controller comfort 2.2 m order no. 1789 ..


■ with extension unit input for BLC extension unit, BLC control extension unit and push-button (NO contact)

- start-up brightness can be stored safe after power failure
$\square$ when cover is detached, the switch status is retained (wallpaper function)
$■$ bulb-preserving soft startup
- short-circuit and overload proof (electronic fuse)
- phase cut-on or cut-off according to load type, self-learning
■ expandable by universal power boosters RMD Plus with load cable switched in parallel
- with screw terminals

Order no.


## BLC triac switch insert LV

 29051
$230 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}$
230 V incandescent and halogen lamps $40-400 \mathrm{~W}$;
Dimmable conventional transformers 40-400 VA;
Operating temperature $-20-+45^{\circ} \mathrm{C}$

## I on page T12

Light scene functions (on/off) in conjunction with BLC radio buttons.

Fuse can be changed without removing cover.
BLC presence detector with constant light control
order no. 170110
BLC ceiling controller order no. 170111
BLC radio button order no. 1760 ..
BLC button order no. 1761 ..
BLC controller 1.1 m IP44 1783 11, 1783 19,
178361 89, 178371 .., 1783
BLC controller 1.1m 178300 .., 1783 02, 1783 09, 17831404 , 17831606,178319 09, 178360 89, 178370 .., 178389 .., 178390 ..
BLC controller comfort 1.1 m IP44 1784 11, 1784 19, 178461 89, 178471 .., 1784
BLC Wächter Komfort 1,1 m 1784 0.., 178414 04, 178416 06, 178419 09, 178460 89, 178470 .. 178489 .., 178490 ..
BLC controller 2.2 m IP44 1786 11, 1786 19, 178661 89, 178671 .., 1786
BLC controller 180 order no. 178600 .., 1786 02, $178609,17861404,17861606,17861909$, 178660 89, 178670 .., 178689 .., 178690 .. BLC controller comfort 2.2 m IP44 1787 11, 1787 19, 178761 89, 178771 .., 1787
BLC controller comfort 180 order no. 178700 .., 1787 02, 178709 , 17871404 , 178716 06, 17871909 , 178760 89, 178770 .., 178789 .., 178790 ..
BLC controller 2.2m order no. 1788 ..
BLC IR-controller comfort 2.2 m order no. 1789 ..
+


1]
■ with extension unit input for BLC extension unit, BLC control extension unit and push-button (NO contact)
■ bulb-preserving soft startup

- when cover is detached, the switch status is retained (wallpaper function)
$\square$ short-circuit and overload proof (fine-wire fuse)
- with spare fuse
- with screw terminals

Order no.


1 on page T12

BLC tronic switch insert
2916
1
$230 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}$
230 V incandescent and halogen lamps 50-420 W;
Electronic transformers 50-420 W;
Operating temperature $-20-+45^{\circ} \mathrm{C}$
Light scene function (on/off) in conjunction with BLC radio button.

For trouble-free operation we recommend Berker Tronic transformers.

BLC presence detector with constant light control order no. 170110
BLC ceiling controller order no. 170111
BLC radio button order no. 1760 ..
BLC button order no. 1761 ..
BLC controller 1.1 m IP44 1783 11, 1783 19, 178361 89, 178371 .., 1783 BLC controller 1.1m 178300 .., 1783 02, 1783 09, $17831404,17831606,17831909,17836089$, 178370 .., 178389 .., 178390 ..
BLC controller comfort 1.1 m IP44 1784 11, 1784 19, 178461 89, 178471 .., 1784
BLC Wächter Komfort 1,1 m 1784 0.., 178414 04, 178416 06, 17841909,178460 89, 178470 .., 178489 .., 178490 ..
BLC controller 2.2 m IP44 1786 11, 1786 19, 178661 89, 178671 .., 1786
BLC controller 180 order no. 178600 .., 1786 02, $178609,17861404,17861606,17861909$, 178660 89, 178670 .., 178689 .., 178690 .. BLC controller comfort 2.2 m IP44 1787 11, 1787 19, 178761 89, 178771 .., 1787
BLC controller comfort 180 order no. 178700 .., 1787 02, $178709,17871404,17871606,17871909$, 178760 89, 178770 .., 178789 .., 178790 ..
BLC controller 2.2m order no. 1788 ..
BLC IR-controller comfort 2.2 m order no. 1789 ..

■ with extension unit input for BLC extension unit, BLC control extension unit and push-button (NO contact)
■ bulb-preserving soft startup
$\square$ when cover is detached, the switch status is retained (wallpaper function)
■ short-circuit and overload proof (electronic fuse)

- phase cut-off

■ with screw terminals

Order no.


## BLC relay switch insert

2906
1
230 V , $50 / 60 \mathrm{~Hz}$
230 V incandescent and halogen lamps 2300 W ;
Electronic transformers 1500 W;
Conventional transformers 1000 VA;
I on page T12
Fluorescent lamps in duo configuration 2300 VA ; Fluorescent lamps uncompensated 1200 VA; Fluorescent lamps parallel compensated 920 VA ; Operating temperature $-20-+45^{\circ} \mathrm{C}$; Installation depth 22 mm

For electronic ballasts and energy-saving lamps with excessive switch-on currents use switch-on current limiters order no. 0185.

Light scene function (on/off) in conjunction with BLC radio button.

Neutral conductor necessary!
BLC presence detector with constant light control order no. 170110
BLC ceiling controller order no. 170111
BLC radio button order no. 1760 ..
BLC button order no. 1761 ..
BLC controller 1.1 m IP44 1783 11, 1783 19, 178361 89, 178371 .., 1783 BLC controller 1.1m 178300 .., 1783 02, 1783 09, $17831404,17831606,17831909,17836089$, 178370 .., 178389 .., 178390 ..
BLC controller comfort 1.1 m IP44 1784 11, 1784 19, 178461 89, 178471 .., 1784
BLC Wächter Komfort 1,1 m $17840 . ., 1784$ 14 04, $17841606,17841909,178460$ 89, 178470 .., 178489 .., 178490 ..
BLC controller 2.2 m IP44 1786 11, 1786 19, 178661 89, 178671 .., 1786
BLC controller 180 order no. 178600 .., 1786 02, $178609,17861404,17861606,17861909$, 178660 89, 178670 .., 178689 .., 178690 .. BLC controller comfort 2.2 m IP44 1787 11, 1787 19, 178761 89, 178771 .., 1787
BLC controller comfort 180 order no. 178700 ..., 1787 02, $178709,17871404,17871606,17871909$, 178760 89, 178770 .., 178789 .., 178790 .. BLC controller 2.2 m order no. 1788 .. BLC IR-controller comfort 2.2 m order no. 1789 ..

## $\mu \mathrm{C}=\square \mathrm{\square}$

- with extension unit input for BLC extension unit, BLC control extension unit and push-button (NO contact)
■ also usable as push-button relay switch
$\square$ when cover is detached, the switch status is retained (wallpaper function)
- with screw terminals


I on page T12

BLC relay switch insert with potential-free contact

## 290610

1
230 V~, 50/60 Hz
230 V incandescent lamps 800 W ;
230 V halogen lamps 750 W ;
Minimum load $12 \mathrm{~V}, 100 \mathrm{~mA}$;
Operating temperature $5-35^{\circ} \mathrm{C}$
For electronic ballasts and energy-saving lamps with excessive switch-on currents use switch-on current limiters order no. 0185.

Light scene function (on/off) in conjunction with BLC radio button.

## Neutral conductor necessary!

BLC presence detector with constant light control order no. 170110
BLC ceiling controller order no. 170111
BLC radio button order no. 1760 ..
BLC button order no. 1761 ..
BLC controller 1.1 m IP44 1783 11, 1783 19,
178361 89, 178371 .., 1783
BLC controller 1.1m 178300 .., 1783 02, 1783 09, $17831404,17831606,17831909,17836089$, 178370 .., 178389 .., 178390 ..
BLC controller comfort 1.1 m IP44 1784 11, 1784 19, 178461 89, 178471 .., 1784
BLC Wächter Komfort 1,1 m 1784 0.., 1784 14 04, $17841606,17841909,178460$ 89, 178470 .., 178489 .., 178490 ..
BLC controller 2.2 m IP44 1786 11, 1786 19, 178661 89, 178671 .., 1786
BLC controller 180 order no. 178600 .., 1786 02, $178609,17861404,17861606,17861909$, 178660 89, 178670 .., 178689 .., 178690 .. BLC controller comfort 2.2 m IP44 1787 11, 1787 19, 178761 89, 178771 .., 1787
BLC controller comfort 180 order no. 178700 .., 1787 02, 178709 , $17871404,17871606,17871909$, 178760 89, 178770 .., 178789 .., 178790 ..
BLC controller 2.2 m order no. 1788 ..
BLC IR-controller comfort 2.2 m order no. 1789 ..

## $\mu \quad 0 \quad \longrightarrow$

$\square$ with extension unit input for BLC extension unit, BLC control extension unit and push-button (NO contact)

- potential-free contact for function extra-low voltage FELV (only change-over voltage) suitable
■ also usable as push-button relay switch
- when cover is detached, the switch status is retained (wallpaper function)
- with screw terminals

Order no.
Packing

## BLC relay switch insert HVAC

(heating/ventilation/air conditioning) 2912

230 V , 50/60 Hz
230 V incandescent and halogen lamps 1000 W ; Electronic transformers 750 W;
I on page T12 Conventional transformers 750 VA ;
Fluorescent lamps in duo configuration 1000 VA; Fluorescent lamps uncompensated 500 VA ; 230 V incandescent lamps (HVAC-channel) 800 W ; 230 V halogen lamps (HVAC-channel) 750 W ; Motor switching current (HVAC-channel) 2,1 A; Switch on delay HVAC-channel $0 / 3 \mathrm{~min}$.; Delay time heating/ventilation/air conditioning ch 2/10/30/60/120 min.

For electronic ballasts and energy-saving lamps with excessive switch-on currents use switch-on current limiters order no. 0185.

Light scene function (on/off) in conjunction with BLC radio button.

## Neutral conductor necessary!

BLC presence detector with constant light control order no. 170110
BLC ceiling controller order no. 170111
BLC radio button order no. 1760 ..
BLC button order no. 1761 ..
BLC controller 1.1 m IP44 1783 11, 1783 19,
178361 89, 178371 .., 1783
BLC controller 1.1m 178300 .., 1783 02, 178309 ,
178314 04, $17831606,17831909,17836089$,
178370 .., 178389 .., 178390 ..
BLC controller comfort 1.1 m IP44 1784 11, 1784 19,
178461 89, 178471 ... 1784
BLC Wächter Komfort 1,1 m $17840 . ., 1784$ 14 04,
178416 06, 178419 09, 178460 89, 178470 .., 178489 ... 178490 ..
BLC controller 2.2 m IP44 1786 11, 1786 19, 178661 89, 178671 ... 1786
BLC controller 180 order no. 178600 ..., 1786 02, $178609,17861404,17861606,17861909$, 178660 89, 178670 .., 178689 .., 178690 .. BLC controller comfort 2.2 m IP44 1787 11, 1787 19, 178761 89, 178771 .., 1787
BLC controller comfort 180 order no. 178700 .., $178702,178709,17871404,17871606,17871909$, 178760 89, 178770 .., 178789 .., 178790 .. BLC controller 2.2 m order no. 1788 ..
BLC IR-controller comfort 2.2 m order no. 1789 ..


- with extension unit input for BLC extension unit, BLC control extension unit and push-button (NO contact)
- potential-free HVAC contact suitable for function extra-low voltage FELV (only alternating voltage)
- also usable as push-button relay switch

■ with delay time HVAC relay contact for e.g. valve drive

- switch on delay for HVAC channel can be activated/deactivated permanently with BLC button
- when cover is detached, the switch status is retained (wallpaper function)
- with screw terminals


## BLC extension units



I on page T12

## BLC controller extension unit

 2908$230 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}$
Number of extension units max. 10 ( 5 with order no. 2902);

Cable length between main device and extension uni 100 m ;
1

Installation depth 22 mm
Neutral conductor necessary!
BLC presence detector with constant light control order no. 170110
BLC ceiling controller order no. 170111
BLC controller 1.1 m IP44 1783 11, 1783 19,
178361 89, 178371 .., 1783
BLC controller 1.1m 178300 .., 1783 02, 178309 ,
$17831404,17831606,17831909,17836089$, 178370 .., 178389 .., 178390 ..
BLC controller comfort 1.1 m IP44 1784 11, 1784 19, 178461 89, 178471 .., 1784
BLC Wächter Komfort 1,1 m $17840 . ., 178414$ 04, $17841606,17841909,178460$ 89, 178470 .., 178489 .., 178490 ..
BLC controller 2.2 m IP44 1786 11, 1786 19, 178661 89, 178671 .., 1786
BLC controller 180 order no. 178600 .., 1786 02, $178609,17861404,17861606,17861909$, 178660 89, 178670 .., 178689 .., 178690 ..
BLC controller comfort 2.2 m IP44 1787 11, 1787 19, 178761 89, 178771 .., 1787
BLC controller comfort 180 order no. 178700 ..., 1787 02, 178709,1787 14 04, 178716 06, 17871909 , 178760 89, 178770 .., 178789 .., 178790 ..
BLC controller 2.2 m order no. 1788 ..
BLC IR-controller comfort 2.2 m order no. 1789 ..

- with screw terminals

Order no.
Packing
unit

Hand-held transmitters
Hand transmitter for BLC IR controller
light grey/dark grey $\quad \boldsymbol{* 2 7 7 0}$
Operating voltage $3 \mathrm{~V}=$;
IR channels 31;
Dimensions (L x W x H) $85 \times 52 \times 7 \mathrm{~mm}$
Functions and settings for BLC controller master station 2 h ON/OFF, continuous ON/OFF, dimming (with BLC dimmer insert), short-time, hotel and test mode, switch insert-switch-off advance warning, response brightness stages, response brightness continuously learnable, switch-on brightness storable (for BLC dimmer insert), response sensitivity in stages, delay time in stages and continuously learnable, sensor cutoff for angle of detection limiter, simultaneous operation, reset.

Functions and settings for BLC controller extension: Extension 2 h or continuous OFF, response sensitivity in stages, sensor cutoff for angle of detection limiter, motion LED, reset.

IR remote control for individual configuration of the BLC IR- Controller Comfort 2.2 m .
BLC IR-controller comfort 2.2 m order no. 1789 ..

■ with enclosed lithium cell battery 3 V type: CR 2025

- with 31 function keys

Order no.
Packing
unit

## BLC stair light system



## BLC Automatic stair light switch RMD Plus light grey 016301 1

230 V~, 50 Hz
230 V incandescent and halogen lamps 2300 W ; Electronic transformers 1500 W;
Conventional transformers 1000 VA;
I on page T19 Electronic ballasts (EVG) 700 W ;
Fluorescent lamps in duo configuration 2300 W;
Fluorescent lamps uncompensated 1200 VA;
Fluorescent lamps parallel compensated 920 W; Switch-on time ED 100 \%;
Delay time adjustable approx. $10 \mathrm{sec} .-15 \mathrm{~min}$. ; RMD 1 modules

For electronic ballasts and energy-saving lamps with excessive switch-on currents use switch-on current limiters order no. 0185.

For contact screening (arc breaking), we recommend the suppressor order no. 0123.

For connection of stair light pulsed inserts and push-buttons (NO contact)tacts).

For 3-conductor circuit with neutral conductor and for 4-conductor circuit with neutral conductor or with phase.

Neutral conductor necessary!
For upgrading of stair light and pulse circuits without additional wiring.

For BLC stair light time switching impulse insert order no. 293410


- with slide switch for off/automatic/automatic with switch-off pre-warning/continuous on
- with switch-off advance warning, flashing at 30, 20 and 10 seconds before switching off
- NO contact
- with screw terminals

Order no.


I on page T19

## BLC stair light time switching impuls insert 293410

$230 \mathrm{~V} \sim, 50 \mathrm{~Hz}$
Control line length max. 100 m;
Installation depth 22 mm
For 3-conductor circuit with neutral conductor and for 4 -conductor circuit with neutral conductor or phase.

Only suitable for BLC monitor 180 with imprint release issue „R3".

For upgrading of stair light and pulse circuits without additional wiring.

Use only in conjunction with the BLC automatic stair light switch RMD order no. 016301
BLC presence detector with constant light control order no. 170110
BLC ceiling controller order no. 170111
BLC button order no. 1761 ..
BLC controller 1.1 m IP44 1783 11, 1783 19,
178361 89, 178371 .., 1783
BLC controller 1.1m 178300 .., 1783 02, 178309 ,
$17831404,17831606,17831909,17836089$, 178370 .., 178389 .., 178390 ..
BLC controller comfort 1.1 m IP44 1784 11, 1784 19, 178461 89, 178471 .., 1784
BLC Wächter Komfort 1,1 m 1784 0.., 178414 04, $17841606,17841909,178460$ 89, 178470 .., 178489 .., 178490 ..
BLC controller 2.2 m IP44 1786 11, 1786 19, 178661 89, 178671 .., 1786
BLC controller 180 order no. 178600 .., 1786 02, $178609,17861404,17861606,17861909$, 178660 89, 178670 .., 178689 .., 178690 .. BLC controller comfort 2.2 m IP44 1787 11, 1787 19, 178761 89, 178771 .., 1787
BLC controller comfort 180 order no. 178700 .., 1787 02, 178709 , 17871404 , 17871606,17871909 , 178760 89, 178770 .., 178789 .., 178790 ..
BLC controller 2.2m order no. 1788 ..
BLC IR-controller comfort 2.2 m order no. 1789 ..

■ with screw terminals

| CONTROLLER SYSTEM |  |
| :---: | :---: |
| Inserts |  |
| $\square=$ | Controller system insert |
| \% | 29391 |
|  | $15 \mathrm{~V}=$ |
| ci max | Flush-mounted controllers see Design lines. |
| 1 on page T20 | Use only in conjunction with controller system power pack order no. 0150 29, 0155, 0159 |
|  | Controller 180 system cover order no. 1715 .., 1718 .. |
|  | - with screw terminals |

Order no.
Packing
unit

## ACCESSORIES

Current limiters

# Making current limiter 

black 0185

230 V~, $50 / 60 \mathrm{~Hz}, 200$ VA
Pre-assembled cable approx. 80 mm ;
Dimensions housing (W x H x D)
approx. $51 \times 25 \times 13 \mathrm{~mm}$
I on page T33
Based on small design, suitable for installation in a 40 mm flush-mounted box, e.g. behind universal insert with relay contact, and BLC relay switching insert. Also suitable for surface-mounted movement controllers and RMD automatic stair light control.
$■$ to limit switch-on currents for problem loads, e.g.
energy-saving lamps, electronic ballasts, etc.

## Accessories

Radio interference suppressor for controller

light grey 0123
$250 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}, 100 \Omega, 0,05 \mu \mathrm{~F}$
Pre-assembled cables approx. 95 mm ;
Dimensions (diameter x H) $18 \times 37 \mathrm{~mm}$
I on page T24 For connection of mains-parallel inductivities (e. g. conventional transformers) when they cause the Controller to reactivate.
$\square$ RC element

Order no.
Packing
unit
MAINS DECOUPLERS


Mains decoupler standard RMD
light grey 018700
1
$230 \mathrm{~V} \sim, 50 \mathrm{~Hz}, 16 \mathrm{~A}$
230 V incandescent and halogen lamps 2300 W ; Electronic transformers 1000 W;
Conventional transformers 800 W ;
I on page T10 Fluorescent lamps in duo configuration 1600 VA ; Fluorescent lamps uncompensated 1000 VA; Fluorescent lamps parallel compensated 700 VA ; Electronic ballast switch-on current $<10 \mathrm{~ms}$, max. 70 A;
Energy-saving lamps max. 160 W;
Motors at $\cos \varphi 0.4$ max. 1400 W ;
Monitoring voltage $230 \mathrm{~V}=$;
Residual ripple typical 8 mV ;
Monitoring current max. 8 mA ;
Operating temperature $0-+40^{\circ} \mathrm{C}$;
RMD 2 modules;
Dimensions $(\mathrm{W} \times \mathrm{H} \times \mathrm{D}) 35 \times 90 \times 65 \mathrm{~mm}$
If a universal touch dimmer is to be de-coupled, the extension unit line length on extension units must be < 20 m .

To prevent heat problems due to mains overvoltage, the distance to other RMD units should be $1 / 2$ modules.

Only suitable for BLC universal touch dimmer with printing R3 and universal rotary dimmer with printing R1.

Advices for application possibilities see technical appendix.
for order no. 0167 01, 0188, 2873, 2875, 2891 10, 289610
Without extension unit with order no. 2834 1.., 286110
With control module with order no. 2874, 2907
Only with BLC button with order no. 2902

- switches without loads to DC voltage without electric and electromagnetic fields
$\square$ for bedroom and child's room in the home
- for mechanical switches, dimmer, current impulse switching, vacuum cleaners, etc.
- for illuminated switches/push-buttons with a neon lamp current of max. 8 mA
$\square$ with green status LED for decoupling
■ with overheating protection
- monitoring voltage measurable with Duspol

Order no.


## Mains decoupler comfort RMD

 light grey 0187011
$230 \mathrm{~V} \sim, 50 \mathrm{~Hz}, 16 \mathrm{~A}$
230 V incandescent and halogen lamps 2300 W;
Electronic transformers 1000 W ;
Conventional transformers 800 W ;
1 on page T10 Fluorescent lamps in duo configuration 1600 VA ; Fluorescent lamps uncompensated 1000 VA; Fluorescent lamps parallel compensated 700 VA ; Electronic ballast switch-on current $<10 \mathrm{~ms}$, max. 70 A;
Energy-saving lamps max. 160 W ;
Motors at $\cos \varphi 0.4$ max. 1400 W ;
Monitoring voltage $230 \mathrm{~V}=$;
Residual ripple typical 4 mV ;
Monitoring current max. 8 mA ;
Operating temperature $0-+40^{\circ} \mathrm{C}$;
RMD 2 modules;
Dimensions (W x H x D) $35 \times 90 \times 65 \mathrm{~mm}$
If a universal touch dimmer is to be de-coupled, the extension unit line length on extension units must be $<20 \mathrm{~m}$.

To prevent heat problems due to mains overvoltage, the distance to other RMD units should be $1 / 2$ modules.

Only suitable for BLC universal touch dimmer with printing R3 and universal rotary dimmer with printing R1.

Advices for application possibilities see technical appendix.
for order no. 0167 01, 0188, 2873, 2875, 2891 10, 289610
Without extension unit with order no. 2834 1.., 286110
With control module with order no. 2874, 2907
Only with BLC button with order no. 2902

- switches without loads to DC voltage without electric and electromagnetic fields
$\square$ for bedroom and child's room in the home
■ for mechanical switches, dimmer, current impulse switching, vacuum cleaners, etc.
- for illuminated switches/push-buttons with a neon lamp current of max. 8 mA
- with manual selection switch for automatic (decoupling) on/off
■ with green operation LED
- with green status LED for decoupling
- with 2 yellow residual current indicator LED
$\square$ with overheating protection
- monitoring voltage measurable with Duspol


## Accessories

Control module for mains decoupler
black
$230 \mathrm{~V} \sim, 50 \mathrm{~Hz}$
Pre-assembled cable approx. 80 mm ;
Dimensions housing ( $\mathrm{W} \times \mathrm{H} \times \mathrm{D}$ )
approx. $45 \times 28 \times 9 \mathrm{~mm}$
For mains decoupler order no. 0187 ..

- required for loads with small switch-on currents
for connection between phase and load line from
dimmer

Order no.
Packing
unit
DIMMERS
Built-in dimmers RMD

$\begin{array}{ll}\text { Universal touch dimmer RMD Plus } \\ \text { light grey } & 016701\end{array}$
230/240 V~, $50 / 60 \mathrm{~Hz}$
230 V incandescent and halogen lamps 50-500 W;
Electronic transformers 50-500 W;
Dimmable conventional transformers 50-500 VA;
Ion page T11 Universal power boosters max. 10 phase cut-off á 500 W;
Universal power boosters max. 5 phase cut-on á 420 VA ;
Load cable length max. 100 m ;
Control line length max. 100 m ;
RMD 2 modules;
Dimensions (W xH x D) $36 \times 90 \times 70 \mathrm{~mm}$;
Assembling height as from DIN rail 63 mm
Trouble-free operation will be obtained only with Berker Tronic transformers.

Do not connect conventional transformers together with electronic transformers.

When using multiple dimmer or power boosters with a control cabinet, maintain a minimum spacing of 1 module width.

Universal booster RMD Plus order no. 016501


- with 2 manual buttons (2-surface operation) for ON (brighter) and OFF (darker)
- single-surface operation with push-button (NO contact)tact) on extension unit input
- two-surface operation with BLC extension unit on extension unit input
■ expandable by universal power boosters RMD Plus with load cable switched in parallel
- start-up brightness can be stored safe after power failure
$\square$ bulb-preserving soft startup
- with green indicator LED
- short-circuit and overload proof (electronic fuse)
- phase cut-on or cut-off according to load type, self-learning
- with screw terminals

Order no.
Packing
unit
Built-in power boosters RMD
 of 1 module width.
for order no. 0128, 0167 01, 0181, 2834 .., 2861 10, 2867 10, 2874, 2885, 2902, 2943, 75311007 , 753120 07, 753140 17, 94550100


- common load switching for dimmer and booster

■ with selectable brightness memory

- bulb-preserving soft startup

■ short-circuit and overload proof (electronic fuse)

- phase cut-on or cut-off according to load type, self-learning
■ with screw terminals
Built-in dimmers
Tronic touch dimmer built-in polar white 2943 1


230 V~, 50 Hz
230 V incandescent and halogen lamps 50-700 W; Electronic transformers 50-700 W;
Universal power boosters max. 10 á 400 W ;
I on page T11 Power boosters built-in/RMD max. 10;
Dimensions ( $\mathrm{L} \times \mathrm{W} \times \mathrm{H}$ ) $212 \times 48,5 \times 46 \mathrm{~mm}$
Trouble-free operation will be obtained only with Berker Tronic transformers.


■ with extension unit input for BLC extension unit and push-but.(NO) and 1 push-but. operation concept
■ with selectable brightness memory
■ bulb-preserving soft startup

- short-circuit and overload proof (electronic fuse)
- phase cut-off
- expandable by universal power boosters RMD Plus with load cable switched in parallel
■ with screw terminals

Order no.

Built-in power booster
Tronic power booster built-in polar white 2868
$230 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}$
230 V incandescent and halogen lamps 100-700 W;
Electronic transformers 100-700 W;
Dimensions ( $\mathrm{L} \times \mathrm{W} \times \mathrm{H}$ ) $212 \times 48,5 \times 46 \mathrm{~mm}$
I on page T11
Trouble-free operation will be obtained only with Berker Tronic transformers.

Neutral conductor necessary!


■ bulb-preserving soft startup

- short-circuit and overload proof (electronic fuse)

■ phase cut-off
■ with screw terminals
LV power booster built-in polar white 2869 369
$230 \mathrm{~V} \sim, 50 \mathrm{~Hz}$
230 V incandescent and halogen lamps 100-600 W; Dimmable conventional transformers 100-600 VA;
Dimensions (L x W x H) $212 \times 48,5 \times 46 \mathrm{~mm}$
1 on page T11
In case of excessive switch-on currents use switchon current limiters order no. 0185

Neutral conductor necessary!


■ bulb-preserving soft startup

- short-circuit and overload proof (electronic fuse)
phase cut-on
■ with screw terminals


## Corded dimmers

Corded slide dimmer LV

| polar white | $\mathbf{2 7 4 4} \mathbf{0 9}$ | 1 |
| :--- | :--- | :--- |
| black | $\mathbf{2 7 4 4}$ | 1 |
| gold | $\mathbf{2 7 4 4} \mathbf{1 8}$ | 1 |

$230 \mathrm{~V} \sim, 50 \mathrm{~Hz}$
230 V incandescent and halogen lamps 20-500 W;
Dimmable conventional transformers 20-500 VA;
Dimensions (L x W x H) $126 \times 60 \times 30 \mathrm{~mm}$

## 

■ for table and standing lamps

- for hand and foot operation

■ bulb-preserving soft startup

- with cable clamp

■ short-circuit and overload proof (fine-wire fuse)

- with temperature protection
- phase cut-on
- with screw terminals

Order no.
Packing
unit
unit

## Corded dimmer transformers

Corded transformer, dimmable 20-105 W

| polar white | $\mathbf{2 7 4 3} \mathbf{0 9}$ | 1 |
| :--- | :--- | :--- |
| black | $\mathbf{2 7 4 3}$ | 1 |
| gold | $\mathbf{2 7 4 3} \mathbf{1 8}$ | 1 |

$230 \mathrm{~V} \sim, 50 \mathrm{~Hz}$
Secondary 3,1-11,8 V~ eff.;
Frequency secondary approx. 40 kHz;
12 V halogen lamps 20-105 W;
Secondary cable length max. 2 m ;
Dimensions $(\mathrm{L} \times \mathrm{W} \times \mathrm{H}) 150 \times 70 \times 36 \mathrm{~mm}$

Safety transformer to VDE 0712-32
Spike-resistant to 1500 V according to EN 61047
M/M
只

- Tronic transformer
$\square$ with sliding controller
- for table and standing lamps
- for hand and foot operation
- input and output electrically isolated
- with overheating protection
- short-circuit and overload proof (electronic fuse)
- no-load proof

■ with overvoltage protection

- bulb-preserving soft startup
- with cable clamp

■ with screw terminals

## TRANSFORMERS

Tronic transformers
Tronic transformer 10-40 W polar white 2915
230 V , 50/60 Hz
Primary current $0,18 \mathrm{~A}$;
Secondary $11,7 \mathrm{~V} \sim$ eff.;
Frequency secondary approx. 40 kHz ;
I on page T30 12 V halogen lamps $10-40 \mathrm{~W}$;
Ambient temperature max. $50^{\circ} \mathrm{C}$;
Pre-assembled primary line approx. 200 mm ; pre-assembled secondary line approx. 200 mm ; Secondary cable length max. 2 m ;
Dimensions ( $\mathrm{L} \times \mathrm{W} \times \mathrm{H}$ ) $73 \times 35,5 \times 18 \mathrm{~mm}$
Dimmable with Berker Tronic dimmer and Berker universal dimmer.

Safety transformer to VDE 0712-32
Spike-resistant to 1500 V according to EN 61047

## 

- bulb-preserving soft startup
- input and output electrically isolated
- with overheating protection
- short-circuit and overload proof (electronic fuse)
- no-load proof
- with overvoltage protection

Order no.
Packing
Order no.
Packing
unit
$\begin{array}{lr}\text { Tronic transformer 20-70 W } \\ \text { polar white } & 2918\end{array}$
230 V , $50 / 60 \mathrm{~Hz}$
Primary current $0,3 \mathrm{~A}$;
Secondary $11,7 \mathrm{~V} \sim$ eff.;
Frequency secondary approx. 40 kHz ;
I on page T30 12 V halogen lamps $20-70 \mathrm{~W}$;
Ambient temperature max. $40^{\circ} \mathrm{C}$;
Pre-assembled primary line approx. 200 mm ; pre-assembled secondary line approx. 200 mm ; Secondary cable length max. 2 m ; Dimensions (L x W x H) $49 \times 48 \times 28 \mathrm{~mm}$

Dimmable with Berker Tronic dimmer and Berker universal dimmer.

## Safety transformer to VDE 0712-32

Spike-resistant to 1500 V according to EN 61047

- W W 出

■ bulb-preserving soft startup
■ input and output electrically isolated

- with overheating protection
- short-circuit and overload proof (electronic fuse)
- no-load proof
- with overvoltage protection


## Tronic transformer 20-70 W

polar white 292610
10
230 V~, 50/60 Hz
Primary current 0,3 A;
Secondary $11,6 \mathrm{~V} \sim$ eff.;
Frequency secondary approx. 40 kHz ;
12 V halogen lamps 20-70 W;
Ambient temperature max. $45^{\circ} \mathrm{C}$;
1 primary screw terminal pair to max. $2,5 \mathrm{~mm}^{2}$;
2 secondary screw terminal pairs to max. $2,5 \mathrm{~mm}^{2}$;
Secondary cable length max. 2 m ;
Dimensions ( $\mathrm{L} \times \mathrm{W} \times \mathrm{H}$ ) $145 \times 55 \times 19 \mathrm{~mm}$
Dimmable with Berker Tronic dimmer and Berker universal dimmer.

Safety transformer to VDE 0712-32
Spike-resistant to 1500 V according to EN 61047

- W W 苗
- bulb-preserving soft startup
- input and output electrically isolated
- with overheating protection
- short-circuit and overload proof (electronic fuse)
- no-load proof
- with overvoltage protection
- with primary and secondary side cable clamp
- with screw terminals


Order no.
Order no.
unit


## Tronic transformer 20-105 W polar white 297401

230/240 V~, 50/60 Hz
Primary current $0,45 \mathrm{~A}$;
Secondary $11,8 \mathrm{~V} \sim$ eff.;
Frequency secondary approx. 40 kHz ;
12 V halogen lamps 20-105 W;
Ambient temperature max. $50^{\circ} \mathrm{C}$;
2 primary screw terminal pairs to max. $2,5 \mathrm{~mm}^{2}$;
3 secondary screw terminal pairs to max. $2,5 \mathrm{~mm}^{2}$;
Secondary cable length max. 1 m ;
Dimensions ( $\mathrm{L} \times \mathrm{W} \times \mathrm{H}$ ) $175 \times 42 \times 18 \mathrm{~mm}$
Dimmable with Berker Tronic dimmer and Berker universal dimmer.

Safety transformer to VDE 0712-32
Spike-resistant to 1500 V according to EN 61047

- $\sqrt{W}$ 苗

■ bulb-preserving soft startup

- input and output electrically isolated
- with overheating protection
- short-circuit and overload proof (electronic fuse)
- no-load proof
- with overvoltage protection
- flat shape
- with primary and secondary side cable clamp
- with screw terminals

Tronic transformer 20-105 W with 1-10 V interface

230 V , 50 Hz
Load current primary max. $0,31 \mathrm{~A}$;
Secondary 11,7 V~ eff.,
12 V halogen lamps 20-105 W;
Control current $0,8 \mathrm{~mA}$;
Ambient temperature max. $50^{\circ} \mathrm{C}$;
2 primary screw terminal pairs to max. $2,5 \mathrm{~mm}^{2}$;
1 screw terminal pair 1-10 V to max. $2,5 \mathrm{~mm}^{2}$;
Secondary cable length max. 1 m ;
Dimensions (L x W x H) $216 \times 42 \times 32 \mathrm{~mm}$
Dimmable with Berker 1-10 V control units.

Interface to DIN EN 60928
Safety transformer to VDE 0712-32

WW 苗

- bulb-preserving soft startup
- with overheating protection
- short-circuit and overload proof (electronic fuse)
- no-load proof
- with cable clamp
- with screw terminals

7ermantal

Tronic transformer 20-150 W
polar white 2976
230 V , $50 / 60 \mathrm{~Hz}$
Primary current $0,71 \mathrm{~A}$;
Secondary $11,7 \mathrm{~V} \sim$ eff.;
Frequency secondary approx. 40 kHz ;
12 V halogen lamps 20-150 W;
Ambient temperature max. $50^{\circ} \mathrm{C}$;
2 primary screw terminal pairs to max. $2,5 \mathrm{~mm}^{2}$;
3 secondary screw terminal pairs to max. $2,5 \mathrm{~mm}^{2}$;
Secondary cable length max. 1 m ;
Dimensions ( $\mathrm{L} \times \mathrm{W} \times \mathrm{H}$ ) $175 \times 42 \times 38 \mathrm{~mm}$
Dimmable with Berker Tronic dimmer and Berker universal dimmer.

Safety transformer to VDE 0712-32
Spike-resistant to 1500 V according to EN 61047

## 

- bulb-preserving soft startup
- input and output electrically isolated
- with overheating protection

■ short-circuit and overload proof (electronic fuse)

- no-load proof
- with overvoltage protection
- with primary and secondary side cable clamp
- with screw terminals

Order no.
Order no.
Packing
unit

## Tronic transformer 50-200 W <br> polar white 2972 <br> 1 <br> $230 \mathrm{~V} \sim, 50 \mathrm{~Hz}$ <br> Primary current $0,96 \mathrm{~A}$;

Secondary $11,5 \mathrm{~V} \sim$ eff.;
Frequency secondary approx. 40 kHz
I on page T30 12 V halogen lamps 50-200 W;
Ambient temperature max. $50^{\circ} \mathrm{C}$;
2 primary screw terminal pairs to max. $2,5 \mathrm{~mm}^{2}$;
2 secondary screw terminal pairs to max. $2,5 \mathrm{~mm}^{2}$;
Secondary cable length max. 2 m ;
Dimensions ( $\mathrm{L} \times \mathrm{W} \times \mathrm{H}$ ) $212 \times 48,5 \times 46 \mathrm{~mm}$
Dimmable with Berker Tronic dimmer and Berker universal dimmer.

## Safety transformer to VDE 0712-32

Spike-resistant to 1500 V according to EN 61047

- W W 出

■ bulb-preserving soft startup
■ very low noise
■ input and output electrically isolated

- with overheating protection

■ short-circuit and overload proof (electronic fuse)
■ no-load proof

- with overvoltage protection

■ with primary and secondary side cable clamp

- with screw terminals


## Transformer accessories

LV distributor 5gang for transformers
polar white 0162
Rated voltage < $25 \mathrm{~V} ;$
Input current max. $16 \mathrm{~A} ;$
Branch-off current max. $16 \mathrm{~A} ;$
Max. connected load $12 \mathrm{~V} \sim 192 \mathrm{~W} ;$
Conductor cross-section max. $2,5 \mathrm{~mm}^{2} ;$
Dimensions (W x H x D) $48 \times 40 \times 16 \mathrm{~mm}$

| The LV distributor 5gang offers time and cost saving |
| :--- |
| installation benefits when installing branched lighting |
| systems. |

## Connecting material to VDE 0613

$\square$ for rigid and flexible conductors (without conductor sleeve)
$\square$ for secondary side connection of up to 5 LV halogen lamps
$\square$ with plug-in terminals

LV distributor 6gang for transformers polar white 0140

1
< 42 V~
Input current max. 17 A ;
Branch-off current max. 8,5 A; Max. connected load $12 \mathrm{~V} \sim 200 \mathrm{~W}$;
I on page T30 Ambient temperature max. $50^{\circ} \mathrm{C}$; Conductor cross-section flexible max. $1,5 \mathrm{~mm}^{2}$; Conductor cross-section rigid max. $2,5 \mathrm{~mm}^{2}$; Pre-assembled cable approx. 80 mm ; Dimensions housing (W x H x D) approx. $86 \times 40 \times 29 \mathrm{~mm}$

- for rigid and flexible conductors (without conductor sleeve)
- for secondary side connection of up to 6 LV halogen lamps
■ pre-assembled, with 2-core flexible wire
■ with plug-in terminals


## Overvoltage protection module


light grey
0142
1
$230 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}$
Leakage current IS(8/20) 4,5 KA (1x);
Leakage current IS(8/20) 1 KA (100x);
Residual voltage at IS 1 KA approx. 1000 V;
I on page T30 Pre-assembled cable approx. 80 mm ;
Dimensions housing (W x H x D) $46 \times 25 \times 23 \mathrm{~mm}$

- for Tronic-transformers and dimmers as Universal dimmers for parallel operation with inductive loads


## CHARGING SOCKETS

USB charging sockets

## NEW

230 V USB charging socket
anthracite, matt *2600 05
polar white, matt *2600 09
$100-240 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}, 5 \mathrm{~V}=(+/-5 \%)$
Output current per socket max. 1 A ;
Output current during operation of both sockets ma 1,4 A;
Power consumption (standby) max. 75 mW ;
Conductor cross-section max. $2,5 \mathrm{~mm}^{2}$;
Installation depth 32 mm
No data transmission possible!
Centre plate order no. 1033 .., 1034 0.., 1035 .

- with 2 USB sockets type A
$■$ for charging mobile end devices via USB cable
■ short-circuit and overload proof (electronic fuse)
■ with screw terminals (double for wiring through)

Order no.
Order no.
Packing
unit


I on page t60
.
Surge current firmness $250 \mathrm{~A}(8 / 20) \mu \mathrm{s}$;
Operating temperature $-25-+40^{\circ} \mathrm{C}$;
Installation depth 32 mm

For central plate order no. 1493 .
Tested conform VDE 0664 (EN 61008)
Suitable for use according to DIN VDE 0100-410

- to protect downstream loads
$\square$ without spreader claws
- with plug-in terminals


## THERMOSTATS

Thermostat accessories


Floor temperature sensor/remote sensor
0161

Sensor cable length 4 m ;
At $25{ }^{\circ} \mathrm{C} 33 \mathrm{k} \Omega$

I on page T34
■ for thermostat time-controlled

- for floor temperature thermostat (replacement)


## INSERTS

Sensor insert


## Sensor insert

$$
75941001
$$

10

## For central plate order no. 7594 .

■ for e.g. temperature sensor PT100
■ without spreader claws

- with plug-in terminals


## Valve drive 230 V

polar white $\quad 75900076$

1
230 V , 0-60 Hz, $230 \mathrm{~V}=$
Power consumption $1,8 \mathrm{~W}$;
Stroke 4 mm ;
Running time $45 \mathrm{~s} / \mathrm{mm}$;
Medium temperature max. 0-100 ${ }^{\circ} \mathrm{C}$;
Operating temperature $0-60^{\circ} \mathrm{C}$;
Pre-assembled cables approx. 1 m; Dimensions (W x H x D) $44 \times 60 \times 61 \mathrm{~mm}$

Neutral conductor necessary!
Order valve adapter separately.
Room thermostat with change-over order no. 2026 ..
Room thermostat with NC contact order no. 2030 .. Floor thermostat with NO contact order no. 2034 ..
Heating actuator 6gang order no. 75316003

## IP54

- with state indication (opened or closed)
- with anti-dismantling protection
- closed in de-energized state
- with overheating protection
- thermoelectric mode of operation
- for plug-in cover
- pluggable connection cable


Valve drive 24 V
polar white $\quad 75900077$
$24 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}, 24 \mathrm{~V}=$
Power consumption 1,8 W;
Stroke 4 mm ;
Running time $45 \mathrm{~s} / \mathrm{mm}$;
Medium temperature max. 0-100 ${ }^{\circ} \mathrm{C}$;
Operating temperature $0-60^{\circ} \mathrm{C}$;
Pre-assembled cables approx. 1 m ;
Max. cable length 200 m;
Dimensions (W x H x D) $44 \times 60 \times 61 \mathrm{~mm}$
Order valve adapter separately.
Room thermostat with NC contact order no. 2031 .. Heating actuator 12gang order no. 75330001
Heating actuator 6gang order no. 75336001
IP54
$\square$ with state indication (opened or closed)

- with anti-dismantling protection
$\square$ closed in de-energized state
- with overheating protection
- thermoelectric mode of operation
$\square$ for plug-in cover
■ pluggable connection cable

Order no.


Order no.
Packing


I on page T37 Recommendation: use deep box. Light scene function (up/down) in connection with RolloTec radio button.

On motors with limit switches, perform a brief inspection of the motor as is described in the technical appendix.

Not suitable for wind speed and precipitation sensors.
RolloTec memory button order no. 1756 ..
RolloTec memory button with sensor connection order no. 1757 .
RolloTec radio button order no. 1758 ..
RolloTec radio button with sensor connection order no. 1759 ..
RolloTec easy time switch order no. 1762 ..
RolloTec button comfort order no. 1770 ..
RolloTec button comfort with sensor connection order no. 1771 ..
RolloTec time switch comfort order no. 1774 ..
RolloTec time switch comfort with sensor connection order no. 1775 .

- with 2 mechanically interlocked NO contacts
- without 230 V extension unit inputs
- for single control on motor with limit switches!
- with screw terminals


I on page T37

RolloTec comfort insert

$$
2975
$$

1
$230 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}$
Switching power max. 1 motor 1000 W
Recommendation: use deep box.
Light scene function (up/down) in connection with RolloTec radio button.

Neutral conductor necessary!
RolloTec wind sensor interface order no. 0173
RolloTec precipitation sensor order no. 018301
RolloTec memory button order no. 1756 ..
RolloTec memory button with sensor connection order no. 1757 ..
RolloTec radio button order no. 1758 .
RolloTec radio button with sensor connection order no. 1759 ..
RolloTec easy time switch order no. 1762 ..
RolloTec button comfort order no. 1770 ..
RolloTec button comfort with sensor connection order no. 1771 .
RolloTec time switch comfort order no. 1774 ..
RolloTec time switch comfort with sensor connection order no. 1775 ..

- with 2 mechanically interlocked NO contacts
- with 230 V extension unit inputs for up, down and sensors
- for single, group and master controls
- suitable for multi-phase mode
- with screw terminals

Order no.
Order no.
Packing
unit


I on page T37

RolloTec comfort insert for direct current drives

297501
$24 \mathrm{~V}=$
Current consumption (idle) approx. 30 mA ;
Current consumption (operation) approx. 100 mA ;
Switching current at $24 \mathrm{~V}=$ : max. 3 A
Recommendation: use deep box.
Light scene function (up/down) in connection with RolloTec radio button.

Follow the motor manufacturers` instructions! An external power supply $24 \mathrm{~V}=$ with protective disconnection is necessary!
Recommendation of power supply units:
Messrs. Elka type: SV230-24.1250DC order no.: 14001915
Messrs. Elka type: SV230-24.2500DC order no.: 14001916
Messrs. Phoenix type: STEP-PS-100-
240AC/24DC/1.5 order no.: 2938947
RolloTec memory button order no. 1756 .. RolloTec memory button with sensor connection order no. 1757 ..
RolloTec radio button order no. 1758 ..
RolloTec radio button with sensor connection order no. 1759 ..
RolloTec easy time switch order no. 1762 .
RolloTec button comfort order no. 1770 ..
RolloTec button comfort with sensor connection order no. 1771 ..
RolloTec time switch comfort order no. 1774 .
RolloTec time switch comfort with sensor connection order no. 1775 ..

- for 24 V reverse polarity motors with limit switches
- with 2 reverse polarity change-over relays
$\square$ with 24 V reverse polarity extension unit inputs for up and down
■ for single, group and master controls
- with screw terminals

| RolloTec sens |  |
| :---: | :---: |
| I on page T37 | RolloTec brightness sensor <br> polar white <br> 0169 <br> Internal resistance approx. $12 \mathrm{k} \Omega$; <br> Nominal current (light) approx. 2 mA ; <br> Nominal current (dark) approx. $0,5 \mathrm{~mA}$; <br> Cable length 2 m ; <br> Extendable cable length max. 20 m ; <br> Sensor dimensions (diameter $\times H$ ) $45 \times 25 \mathrm{~mm}$ <br> Before mounting, clean window pane with spirit and sensor with washing up liquid, then dip sensor in clear water and stick onto window pane. <br> Only suitable for covers with sensor connection. <br> Timer with sensor connection order no. 1738 .. <br> RolloTec time switch with sensor connection order no. 1775 .. <br> RolloTec memory button with sensor connection order no. 1757 .. <br> RolloTec radio button with sensor connection order no. 1759 .. <br> RolloTec button comfort with sensor connection order no. 1771 .. <br> IP54 <br> - with photodiode <br> - for suction cover to window pane <br> ■ pre-assembled, with cable and plug |
| I on page T37 | RolloTec brightness sensor surface-mounted <br> polar white <br> 0184 <br> 1 <br> Internal resistance approx. $12 \mathrm{k} \Omega$; <br> Nominal current (light) approx. 2 mA ; <br> Nominal current (dark) approx. $0,5 \mathrm{~mA}$; <br> Max. cable length 20 m ; <br> Sensor dimensions (W x H x D) $27 \times 84,5 \times 30 \mathrm{~mm}$ <br> Only suitable for covers with sensor connection. <br> Timer with sensor connection order no. 1738 .. RolloTec time switch with sensor connection order no. 1775 .. <br> RolloTec memory button with sensor connection order no. 1757 .. <br> RolloTec radio button with sensor connection order no. 1759 .. <br> RolloTec button comfort with sensor connection order no. 1771 .. <br> IP54 <br> - with photodiode <br> - with mounting bracket <br> - with screw terminals |

Order no.
Packing
Order no.
Packing


I on page T37
RolloTec glass breakage sensor
polar white, NC contact 0170 1
Action radius 2 m ;
Cable length 2 m ;
Extendable cable length max. 20 m ;
Dimensions, sensor ( $\mathrm{L} \times \mathrm{W} \times \mathrm{H}$ ) $37 \times 19 \times 12 \mathrm{~mm}$
Only suitable for covers with sensor connection.
Attention!
Please use the following adhesive sets only. Loctite, www.loctite.de

29691 Glas-Metal adhesive set
consisting of:
319 adhesive and
7649 activator
In case of glass breakage the blind is moved down and the extension unit inputs are locked.

RolloTec time switch with sensor connection order no. 1775 ..
RolloTec memory button with sensor connection order no. 1757 .
RolloTec radio button with sensor connection order no. 1759 ..
RolloTec button comfort with sensor connection order no. 1771.

IP67
■ pre-assembled, with cable and plug

## RolloTec adapter for sensors <br> polar white 0171

Cable length 5 m
Only suitable for covers with sensor connection.
I on page T37 Timer with sensor connection order no. 1738 .. RolloTec time switch with sensor connection order no. 1775 ..
RolloTec memory button with sensor connection order no. 1757 ..
RolloTec radio button with sensor connection order no. 1759 ..
RolloTec button comfort with sensor connection order no. 1771 ..

- for brightness sensor and glass breakage sensor
- for the connection of RolloTec brightness and glass-break sensor to an cover
- pre-assembled, with cable, plug and 2 sockets


Magnetic contact

| polar white | 925102 | 1 |
| :--- | :--- | :--- |
| brown | 925101 | 1 |

Switching voltage max. $40 \mathrm{~V}=$;
Switching current max. 500 mA ;
Max. switching capacity 10 W ;
Cable length 3 m ;
Dimensions, sensor $(\mathrm{L} \times \mathrm{W} \times \mathrm{H}) 44 \times 15 \times 15 \mathrm{~mm}$
RolloTec function:
When window is open, blind moves to the lower end position for example.

Suitable for RolloTec covers with sensor connection.
To monitor window and door opening.
RolloTec time switch with sensor connection order no. 1775 ..
RolloTec memory button with sensor connection order no. 1757 ..
RolloTec radio button with sensor connection order no. 1759 ..
RolloTec button comfort with sensor connection order no. 1771 ..
Connection e.g. with universal Interface order no. 7564 .. on central alarm KNX/EIB order no. 75730010
For alarm central unit order no. 9020
IP67
■ built-on/built-in

- pre-assembled, with cable
- in the isolated state the contact is open


RolloTec precipitation sensor
grey 018301
$230 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}$
Switching current $30 \mathrm{~V}=$ ohmic max. 3 A ;
Switching current $250 \mathrm{~V} \sim$ ohmic max. 6 A ;
Making current $250 \mathrm{~V} \sim$ ohmic max. 15 A ;
Power consumption incl. additional heating
max. $4,5 \mathrm{~W}$;
Pre-assembled cables approx. 2,9 m;
Mast diameter max. 62 mm ;
Dimensions, sensor ( $\mathrm{L} \times \mathrm{W} \times \mathrm{H}$ ) $82 \times 60 \times 57,5 \mathrm{~mm}$;
Dimensions, mounting angle
(W $\times \mathrm{H} \times \mathrm{D}$ ) $90 \times 91 \times 78 \mathrm{~mm}$
Neutral conductor necessary!
When it begins to rain, snow etc. the contact is closed. To protect against mildew on awnings, roller shutters etc.

## For Rollotec comfort insert order no. 2975

## $\mu$

IP65

- with potential-free change-over contact
- heated
- pre-assembled, with cables
- with stainless steel mounting bracket approx. $70^{\circ}$
- with pipe clamp for mast fixing

Order no.
Packing
unit
RolloTec wind sensor
white 0172011
Wind strength measuring range $3-10 \mathrm{Bft}$;
Wind speed measuring range 0,5-40 m/s;
Pre-assembled cable approx. 3 m
1 on page T37
To be used only in connection with wind sensor interface order no. 0173
Mast adapter order no. 75900046

- reed contact (frequency measurement)
- with fitting material

■ confectioned with wire LIYY $2 \times 0.5 \mathrm{~mm}^{2}$ and conductor sleeves


## RolloTec wind sensor interface

## polar white 0173

1
$230 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}$
Wind speeds adjustable 3-10 Bft;
Switching current 2 A ;
Dimensions (W x H x D) $110 \times 94 \times 38 \mathrm{~mm}$
I on page T37
Also suitable for Thies heated wind speed sensor order no. 4.3515.50.000.

Neutral conductor necessary!
When the wind speed is reached the contact is closed. To protect against excessive wind, e. g. for shutters, awnings, etc.

For RolloTec wind sensor order no. 017201
For Rollotec comfort insert order no. 2975

## IP55

- with potential-free contact
- 2 NO contacts, common input terminal
- with test mode
- with fitting material
- with screw terminals


I on page T35

## RolloTec cutoff relay

2930
230 V~, 50/60 Hz
Current consumption (operation) approx. 10 mA ;
Switching current at $\cos \varphi 0.6$ max. 3 A;
Switching current at $\cos \varphi 1$ max. 8 A ;
Switch-on time ED 100 \%;
Activation change-over time up/down min. 0,5 sec.;
Ambient temperature $0-60^{\circ} \mathrm{C}$;
Dimensions (W x H x D) $50 \times 52 \times 22 \mathrm{~mm}$
Neutral conductor necessary!

■ with separate mains power supply

- to operate 2 shutter/blind control motors
- with master input e.g. for RolloTec timer
$\square$ with screw terminals

Order no.


I on page T35

## RolloTec cutoff relay RMD

2931
1
230 V~, 50/60 Hz
Current consumption (operation) approx. 10 mA ;
Switching current at $\cos \varphi 0.6$ max. 3 A;
Switching current at $\cos \varphi 1$ max. 8 A ;
Switch-on time ED 100 \%;
Activation change-over time up/down min. 0,5 sec.; RMD 2,5 modules;
Dimensions (W $\times \mathrm{H} \times \mathrm{D}$ ) $45 \times 71 \times 42 \mathrm{~mm}$; Assembling height as from DIN rail 38 mm

Neutral conductor necessary!

■ with separate mains power supply
$\square$ to operate 2 shutter/blind control motors
■ with master input e.g. for RolloTec timer
with screw terminals


## RolloTec cutoff relay with extension unit

 outgoing feedersgrey 2969
1
$230 \mathrm{~V} \sim, 50 \mathrm{~Hz}$
Current consumption (operation) approx. 10 mA ; Switching current at $\cos \varphi 0.6$ max. 4 A;
I on page T35 Switch-on time ED $100 \%$;
Activation change-over time up/down min. $0,5 \mathrm{sec}$.;
Ambient temperature $0-60^{\circ} \mathrm{C}$;
Dimensions (W x H x D) $53 \times 50 \times 25 \mathrm{~mm}$
Neutral conductor necessary!

■ with separate mains power supply

- required for electric motor decoupling

■ to operate 2 shutter/blind control motors

- with master input e.g. for RolloTec timer
- with 2 extension unit outgoing feeders for single operation
- with screw terminals


I on page T35

## RolloTec cutoff relay RMD with extension unit outgoing feeders <br> 1

$230 \mathrm{~V} \sim 50 \mathrm{~Hz}$
Current consumption (operation) approx. 10 mA ; Switching current at $\cos \varphi 0.6$ max. 4 A;
Switch-on time ED 100 \%;
Activation change-over time up/down min. $0,5 \mathrm{sec}$.; RMD 2,5 modules;
Dimensions (W x H x D) $45 \times 71 \times 42 \mathrm{~mm}$;
Assembling height as from DIN rail 39 mm
Neutral conductor necessary!

■ with separate mains power supply
$\square$ required for electric motor decoupling

- to operate 2 shutter/blind control motors
- with master input e.g. for RolloTec timer

■ with 2 extension unit outgoing feeders for single operation

- with screw terminals

Order no.
Order no.


## Timer relay switch insert

230/240 V~, $50 / 60 \mathrm{~Hz}$
230 V incandescent lamps 1500 W ;
230 V halogen lamps 300 W ;
Electronic transformers 1500 W;
Conventional transformers 1000 VA;
Fluorescent lamps in duo configuration 1000 VA;
Fluorescent lamps uncompensated 500 VA;
Fluorescent lamps parallel compensated 150 VA ;
Delay time adjustable approx. 1-60 min. ;
Axial dimension diameter 4 mm
For electronic ballasts and energy-saving lamps with excessive switch-on currents use making current limiters order no. 0185.

Neutral conductor necessary!
Centre plate order no. 1674 ..

- electronic timer with on/off pressure switch
- is switched off when actuated in the switched-on state
- with extension unit input for push-button (NO contact)tact)
- with red control LED
- short-circuit and overload proof (fine-wire fuse)
- with spare fuse


Insert for timer
2948 1
$230 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}$
230 V incandescent and halogen lamps 1000 W ;
Electronic transformers 750 W ;
Conventional transformers 500 VA;
I on page T7 Fluorescent lamps in duo configuration 1000 VA;
Fluorescent lamps uncompensated 500 VA ;
Fluorescent lamps parallel compensated 400 VA
For electronic ballasts and energy-saving lamps with excessive switch-on currents use switch-on current limiters order no. 0185.

Recommendation: Use a deep box!
Neutral conductor necessary!
Timer easy order no. 1735 ..
Timer order no. 1736 ..
Timer with sensor connection order no. 1738 ..
$\mu \mathrm{O} \because \mathrm{I} \times \square=\square$

- with potential-free contact
- with 230 V extension unit inputs for on and off
- with screw terminals


## Modul 2

## Standard range, flush-mounted system

A range with clear lines meeting all your requirements for modern electrical installation.

- Suitable for both residential and functional buildings
- Combination frames allow you to combine up to 5 devices vertically or horizontally
- Available surfaces: glossy in white and polar white


| Frames | 26-28 | Universal series touch dimmers | 26-28 |
| :---: | :---: | :---: | :---: |
| Socket outlets | 29 | Berker Light Control | 29 |
| Covers switches/push-buttons | 29 | Thermostats | 29 |
| RCD Protection switch | 26-28 | Rollotec | 26-28 |
| Push-buttons | 26-28 | Entertainment electronics | 26-28 |
| Blank plates | 26-28 | TV/Audio/Video | 26-28 |
| Pilot lamps | 26-28 | Intermediate rings | 26-28 |
| Timers | 26-28 | Data/Tele communications | 26-28 |
| Rotary dimmers | 26-28 | Signalling and command units | 26-28 |
| Speed controllers | 26-28 | Hospital installation | 26-28 |


|  |  | Order no. | Packing <br> unit |
| :--- | :--- | :---: | :---: |
| FRAMES |  |  |  |
|  | Frame |  | 10 |
|  | white, glossy, 1gang | $\mathbf{1 0 1 1 0 2}$ | 10 |
|  | white, glossy, 2gang | $\mathbf{1 0 1 2 0 2}$ | 10 |
|  | white, glossy, 3gang | $\mathbf{1 0 1 3 0 2}$ | 2 |
|  | white, glossy, 4gang | $\mathbf{1 0 1 4 0 2}$ | 2 |

■ for vertical and horizontal mounting

|  | Frame <br> polar white, glossy, <br> 1gang <br> polar white, glossy, <br> 2gang <br> polar white, glossy, <br> 3gang <br> polar white, glossy, <br> 4gang page T67 <br> polar white, glossy, <br> 5gang | 101109 | 100 |
| :--- | :--- | :---: | :---: |
|  | 101209 | 10 |  |

For suitable tube-entries and replacement for cable and duct entries refer to the dry surface-mounted range.

Flush-mounted devices can be used with surfacemounted frames for surface-mounted installation. Self-extinguishing base plate see module inserts / accessories order no. 102112

- with cable and duct entry

■ entry at top and bottom possible



Frame

| red, glossy, 1gang | $\mathbf{1 0 1 1 7 2}$ | 10 |
| :--- | :--- | ---: |
| red, glossy, 2gang | $\mathbf{1 0 1 2} \mathbf{7 2}$ | 2 |
|  |  |  |
| Not suitable for surface-mounted frames. |  |  |

Not suitable for surface-mounted frames.

■ for vertical and horizontal mounting
■ suitable for cable ducts with lid 80
■ for emphasising special switches, socket outlets, etc.

## SURFACE-MOUNTED FRAMES



Surface-mounted frame 1gang
white, glossy 1029000210
polar white, glossy 1029006910
red, glossy
1029006210
black, glossy 1029006510
brown, glossy 102900010
stainless steel, 10299004
lacquered
light bronze, lacquered 1029901110
Installation depth 33,5 mm
Order no.
Packing
unit

| Frame <br> polar white, glossy, <br> 1gang <br> polar white, glossy, <br> 2gang <br> polar white, glossy, <br> 3gang | 101129 | 10 |
| :--- | :--- | :---: |

Not suitable for surface-mounted frames.

■ for vertical and horizontal mounting

- suitable for cable ducts with lid 80

10299004

Order no.

| Surface-mounted frame 2gang |  |  |
| :---: | :---: | :---: |
| white, glossy | 10300002 | 10 |
| polar white, glossy | 10300069 | 10 |
| red, glossy | 10300062 | 10 |
| brown, glossy | 10300001 | 10 |
| stainless steel, lacquered | 10309004 | 10 |
| light bronze, lacquered | 10309011 | 10 |

Installation depth $33,5 \mathrm{~mm}$
For suitable tube-entries and replacement for cable and duct entries refer to the dry surface-mounted range.

Flush-mounted devices can be used with surfacemounted frames for surface-mounted installation. Self-extinguishing base plate see module inserts / accessories order no. 102122
$\square$ with cable and duct entry
■ entry at top, bottom and $2 x$ each side possible
$\square$ for vertical and horizontal mounting
Surface-mounted frame 3gang
white, glossy 10310002
polar white, glossy 103100695
red, glossy 10310062
brown, glossy 103100015
stainless steel, 10319004
lacquered
light bronze, lacquered 10319011 5
Installation depth 33,5 mm
For suitable tube-entries and replacement for cable and duct entries refer to the dry surface-mounted range.

Flush-mounted devices can be used with surfacemounted frames for surface-mounted installation. Self-extinguishing base plate see module inserts / accessories order no. 102132
$\square$ with cable and duct entry
$\square$ entry at top, bottom and at each side in the middle possible
■ for vertical and horizontal mounting

Order no.
Packing
unit

## SOCKET OUTLETS

## SCHUKO-socket outlets



1 on page T6

## SCHUKO socket outlet

white, glossy 47430210
polar white, glossy 47430910
red, glossy 47430510
green, glossy 47430310
orange, glossy 474304
white, glossy, enhanced 47230210
contact protection
IEC 60884-1
polar white, glossy, 47230910
enhanced contact
protection IEC 60884-1
green, glossy, enhanced 47230310
contact protection
IEC 60884-1
orange, glossy, 472304
enhanced contact
protection IEC 60884-1
white, glossy, without 6147430210
spreader claws
polar white, glossy, 61474309
without spreader claws
16 A, 250 V~
The insert of the red, green and orange socket outlets is colour-coded.

61474302 and 61474309 for the Netherlands!

Connection terminals IEC 60884-1

- with plug-in terminals


SCHUKO socket outlet

| white, glossy | $\mathbf{4 1 4 3 0 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{4 1 4 3 0 9}$ | 10 |
| 16 A, 250 V~ |  |  |

$16 \mathrm{~A}, 250 \mathrm{~V} \sim$

1 on page T6
Connection terminals IEC 60884-1

- with screw-in lift terminals


1 on page T6

SCHUKO socket outlet with imprint
green, glossy,
474313
with imprint „SV"
orange, glossy,
474314
with imprint „ZSV"
16 A, 250 V~
Insert colour-coded.

Connection terminals IEC 60884-1

- with plug-in terminals

Order no.
Order no.
Packing

| with centre plate $50 \times 50 \mathrm{~mm}$ |  |
| :--- | :--- |
| white, glossy | 4703 |

polar white, glossy 47030910
$16 \mathrm{~A}, 250 \mathrm{~V} \sim$
I on page T6
Suitable for installation without frame in Ackermann and Tehalit $50 \times 50 \mathrm{~mm}$ cable ducts.

With centre plate as per DIN 49075
Connection terminals IEC 60884-1
■ with plug-in terminals

SCHUKO socket outlet
with centre plate $50 \times 50 \mathrm{~mm}$
white, glossy, enhanced $\quad 4123$
contact protection IEC
$60884-1$
$16 \mathrm{~A}, 250 \mathrm{~V} \sim$

Suitable for installation without frame in Ackermann and Tehalit $50 \times 50 \mathrm{~mm}$ cable ducts.

With centre plate as per DIN 49075
Connection terminals IEC 60884-1
■ with screw-in lift terminals


1 on page T6


The insert of the red, green and orange socket outlets is colour-coded.

Labelling field height arranged for 6 mm P-touch strips.

Connection terminals IEC 60884-1
■ with plug-in terminals

Specially suited for combining several socket outlets if right angle plugs are used.

Connection terminals IEC 60884-1
■ for diagonal installation

- with plug-in terminals

SCHUKO socket outlet with labelling field

| white, glossy | $\mathbf{4 7 4 9 0 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{4 7 4 9 0 9}$ | 10 |
| red, glossy | $\mathbf{4 7 4 9 0 5}$ | 10 |
| green, glossy | $\mathbf{4 7 4 9 0 3}$ | 10 |
| orange, glossy | $\mathbf{4 7 4 9 0 4}$ | 10 |
| white, glossy, enhanced  <br> contact protection IEC $\mathbf{4 7 5 6 0 2}$ |  |  |
| 60884-1 |  |  |
| polar white, glossy, | $\mathbf{4 7 5 6 0 9}$ | 10 |

polar white, glossy,
enhanced contact
protection IEC 60884-1
16 A, 250 V~
SCHUKO socket outlet $\mathbf{4 5}^{\circ}$

| white, glossy | $\mathbf{4 7 2 7} \mathbf{0 2}$ | 1 |
| :--- | ---: | ---: |
| polar white, glossy | $\mathbf{4 7 2 7} \mathbf{0 9}$ | 1 |
| $16 \mathrm{~A}, 250 \mathrm{~V} \sim$ |  |  |
| Specially suited for combining several socket outlets |  |  |
| if right angle plugs are used. |  |  |

I on page T6
$16 \mathrm{~A}, 250 \mathrm{~V} \sim$
Neon lamp current 1,5 mA
Insert colour-coded.
Replacement neon lamp unit see module inserts / accessories order no. 1609

Execution SV, ZSV to VDE 0100-710
Connection terminals IEC 60884-1
■ with neon lamp unit

- with screw-in lift terminals


1 on page T6

| SCHUKO socket outlet |  |  |
| :---: | :---: | :---: |
| white, glossy | 415902 | 10 |
| polar white, glossy | 415909 | 10 |
| red, glossy | 415962 | 10 |
| green, glossy | 415903 | 10 |
| $16 \mathrm{~A}, 250 \mathrm{~V} \sim$ <br> Neon lamp current 1,5 mA |  |  |
|  |  |  |
| The insert of the red and green socket outlets is colour-coded. |  |  |
| Labelling field height arranged for 6 mm P-touch strips. |  |  |
| Replacement neon lamp unit see module inserts / accessories order no. 1609 |  |  |
| Connection terminals IEC 60884-1 |  |  |
| with neon lamp with screw-in lif |  |  |

Order no.
Packing
unit

## SCHUKO-socket outlets with safety device



SCHUKO socket outlet with overvoltage protection and labelling field
white, glossy 410802
polar white, glossy 410809
red, glossy
410862

I on page T33
16 A, 250 V~, 50/60 Hz
Labelling field height arranged for 6 mm P-touch strips.

Overvoltage protection to EN 61643 and
VDE 0675-6, -11
Connection terminals IEC 60884-1
$\square$ with imprint
■ with indicator LED for „on/error"
$\square$ with acoustic fault signal

- with screw terminals



## SCHUKO socket outlet with RCD protection

 switchwhite, glossy, enhanced 4708021
contact protection IEC
60884-1
polar white, glossy, 4708091
enhanced contact
protection IEC 60884-1
$16 \mathrm{~A}, 250 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}$
Rated fault current 30 mA ;
Switch off time <= 30 ms ;
Short-circuit resistance 3 kA (with pre-fuse 20 AgL );
Surge current firmness 250 A (8/20) $\mu \mathrm{s}$
Through-wired socket outlets are also protected.

Suitable for use according to DIN VDE 0100-410
Tested conform VDE 0664 (EN 61008)
Connection terminals IEC 60884-1
■ to protect connected and downstream loads

- with plug-in terminals


## SCHUKO-socket outlets



SCHUKO socket outlet with hinged cover
white, glossy 474402
polar white, glossy 47440910
$16 \mathrm{~A}, 250 \mathrm{~V} \sim$

1) on page T6

Connection terminals IEC 60884-1

- with imprint
- with plug-in terminals


SCHUKO socket outlet
with hinged cover and labelling field
white, glossy 47460210
polar white, glossy 47460910
$16 \mathrm{~A}, 250 \mathrm{~V} \sim$

[^1]Connection terminals IEC 60884-1

- with plug-in terminals

Order no.
Packing
unit

## Barrier-free construction



SCHUKO socket outlet with hinged cover and scannable symbol socket outlet polar white, glossy 478649 10
$16 \mathrm{~A}, 250 \mathrm{~V} \sim$

I on page T6 An optical accentuation can be achieved by using a contrast frame order no. 101145

Barrier-free building based on DIN 18025
Connection terminals IEC 60884-1

- for barrier-free construction
- with plug-in terminals


SCHUKO socket outlet with hinged cover and scannable symbol socket outlet
polar white, glossy, 474449
enhanced contact
protection IEC 60884-1
16 A, 250 V~

1) on page T6


Specially suited for combining several socket outlets if right angle plugs are used.

An optical accentuation can be achieved by using a contrast frame order no. 101145

Barrier-free building based on DIN 18025
Connection terminals IEC 60884-1
■ for barrier-free construction

- mounting orientation of insert selectable in $45^{\circ}$ steps
- with plug-in terminals


## SCHUKO-socket outlets



SCHUKO socket outlet with cover plate

| white, glossy | $\mathbf{4 7 4 2 0 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{4 7 4 2 0 9}$ | 10 |
| white, glossy, enhanced | $\mathbf{4 7 2 2 0 2}$ | 10 |

contact protection IEC
60884-1
1 on page T6
polar white, glossy, 472209
enhanced contact
protection IEC 60884-1
16 A, 250 V~

Connection terminals IEC 60884-1
■ with plug-in terminals


SCHUKO socket outlet
with change-over switch and cover plate
white, glossy 4306
16 A, 250 V~
Switching current 16 A

For fitting in standard wall boxes according to DIN 49073-1
Connection terminals IEC 60884-1
■ change-over switch and socket outlet with common input terminal

- with screw-in lift terminals

Order no.
Packing
Order no.
Packing
unit

16 A, 250 V~
Switching current 10 A

For fitting in standard wall boxes according to DIN 49073-1
Connection terminals IEC 60884-1
■ for vertical mounting

- with change-over switch
- without spreader claws

■ with screw terminals


SCHUKO socket outlet with rockers switch and cover plate

| white, glossy | $\mathbf{6 1 4 3 5 5 0 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{6 1 4 3 5 5 0 9}$ | 10 |

polar white, glossy
61435509
$16 \mathrm{~A}, 250 \mathrm{~V} \sim$
Switching current 10 A

For fitting in standard wall boxes according to
DIN 49073-1
Connection terminals IEC 60884-1

- for vertical mounting

■ with series switch
$\square$ without spreader claws
■ with screw terminals

## SCHUKO-socket outlets



I on page T6

| Double SCHUKO socket outlet with cover plate |  |  |
| :---: | :---: | :---: |
| white, glossy | 475402 | 10 |
| polar white, glossy | 475409 | 10 |
| white, glossy, enhanced contact protection IEC 60884-1 | 472902 | 10 |
| polar white, glossy, enhanced contact protection IEC 60884-1 | 472909 | 10 |
| white, glossy, without spreader claws | 61475402 | 10 |
| polar white, glossy, | 61475409 | 10 |

without spreader claws
16 A, 250 V~
Assembling height 22 mm
61475402 and 61475409 for the Netherlands!

For fitting in 1gang wall boxes according to
DIN 49073-1
Connection terminals IEC 60884-1

- with plug-in terminals


| Double SCHUKO socket outlet flat <br> with cover plate |  |  |
| :--- | :--- | :--- |
| white, glossy | $\mathbf{6 1 4 7 3 0} \mathbf{0 2}$ | 10 |
| polar white, glossy | $\mathbf{6 1 4 7 3 0} \mathbf{0 9}$ | 10 |

$16 \mathrm{~A}, 250 \mathrm{~V} \sim$
Suitable for Attema (UK40 and PVK40) and Haf (H150) wall boxes.

Connection terminals IEC 60884-1

- flat design for Attema and Haf wall boxes

■ without spreader claws
■ with plug-in terminals

## SCHUKO-socket outlets for cable ducts

## SCHUKO socket outlet combination 2gang



## with frame

| white, glossy | $\mathbf{4 7 2 0} 02$ | 5 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{4 7 2 0} 09$ | 5 |

$16 \mathrm{~A}, 250 \mathrm{~V}$ ~
For installation in cable duct mounting boxes and in standard commercially available 2gang hollow wall boxes, also in 2gang flush-mounted boxes.

Connection terminals IEC 60884-1

- without spreader claws

■ $2 \times 1$ gang, wired-through

- with plug-in terminals

SCHUKO-socket outlets


3gang SCHUKO socket outlet with cover plate
white, glossy 6141605
polar white, glossy $\quad 61416009$
$16 \mathrm{~A}, 250 \mathrm{~V} \sim$
Pre-assembled cables approx. 1 m ;
Conductor cross-section $2,5 \mathrm{~mm}^{2}$;
Installation time approx. 2 min .

For fitting in standard wall boxes according to DIN 49073-1
Connection terminals IEC 60884-1
■ round
■ without spreader claws
■ with screw terminals

Order no.
Order no.


## 3gang SCHUKO socket outlet with cover plate

white, glossy 476602

5 polar white, glossy 4766095
16 A, 250 V~
Pre-assembled cables approx. 1 m ;
Conductor cross-section $2,5 \mathrm{~mm}^{2}$;
Installation time approx. 2 min.
For installation in cable duct mounting boxes and in standard commercially available 2gang hollow wall boxes, also in 2gang flush-mounted boxes.

Connection terminals IEC 60884-1

- without mounting box
- common base, connected-through
- through-wiring possible
- without spreader claws
- with plug-in terminals


## Socket outlets without earth contact



## Socket outlet without earth contact

white, glossy 61610302
polar white, glossy
61610309
Mirror depth $7,8 \mathrm{~mm}$
I on page T6
Connection terminals IEC 60884-1

- 2pole
- without spreader claws
- with screw terminals


Socket outlet without earth contact
white, glossy, enhanced 61617602
contact protection IEC
60884-1
polar white, glossy,
61617609
enhanced contact
I on page T6 protection IEC 60884-1
16 A, 250 V~
Mirror depth $14,5 \mathrm{~mm}$

Connection terminals IEC 60884-1

- 2pole
- without spreader claws
- with screw terminals


Socket outlet without earth contact with cover plate
white, glossy 6161020210
polar white, glossy 61610209
$16 \mathrm{~A}, 250 \mathrm{~V} \sim$
Mirror depth 7,6 mm
I on page T6

Connection terminals IEC 60884-1

- 2pole
- without spreader claws
- with screw terminals


## Combination switch/socket outlet

Socket outlet without earth contact with rocker switch and cover plate
white, glossy 61436602
polar white, glossy 6143660910
16 A, 250 V~
Switching current 10 A ;
Mirror depth 6 mm

For fitting in standard wall boxes according to
DIN 49073-1
Connection terminals IEC 60884-1

- socket outlet 2pole
- for vertical mounting
- with change-over switch
without spreader claws
- with screw terminals



## Socket outlet without earth contact

 with rockers switch and cover platewhite, glossy 6143650210
polar white, glossy 6143650910

16 A, 250 V ~
Switching current 10 A ;
Mirror depth 6 mm

For fitting in standard wall boxes according to
DIN 49073-1
Connection terminals IEC 60884-1

- socket outlet 2pole
- for vertical mounting
with series switch
- without spreader claws
- with screw terminals

Socket outlets without earth contact


Double socket outlet without earth contact with cover plate
white, glossy 61675402
polar white, glossy $61675409 \quad 10$
16 A, 250 V~
Mirror depth $5,7 \mathrm{~mm}$
I on page T6

For fitting in standard wall boxes according to
DIN 49073-1
Connection terminals IEC 60884-1

- 2pole
- without spreader claws
- with plug-in terminals

Order no.


```
Socket outlet with earth pin
and centre plate 50\times50 mm
white, glossy, enhanced 67657601
contact protection IEC
60884-1
16 A, 250 V ~
```

I on page T6

For fitting in standard wall boxes according to DIN 49073-1
Connection terminals IEC 60884-1

- 2pole
$\square$ round
- with screw terminals
- without spreader claws


## Socket outlets with earth pin



Socket outlet with earth pin

| white, glossy, enhanced | $\mathbf{6 7 6 5 7 6 0 2}$ | 10 |
| :--- | :--- | :---: |
| contact protection IEC <br> $60884-1$ |  |  |
| polar white, glossy, <br> enhanced contact <br> protection IEC 60884-1 | $\mathbf{6 7 6 5 7 6 0 9}$ | 10 |
| $16 \mathrm{~A}, 250 \mathrm{~V} \sim$ |  |  |

Connection terminals IEC 60884-1

- 2pole + earth
- with screw-in lift terminals


Ion page T6
Socket outlet with earth pin

| white, glossy, enhanced <br> contact protection <br> IEC $60884-1$ | $\mathbf{6 7 6 8 7 6 0 2}$ | 10 |
| :--- | ---: | ---: |
| polar white, glossy, <br> enhanced contact <br> protection IEC 60884-1 | $\mathbf{6 7 6 8 7 6 0 9}$ |  |
| 16 A, $250 \mathrm{~V} \sim$ |  |  |

Connection terminals IEC 60884-1
■ 2pole + earth

- with plug-in terminals


Ion page T6

Socket outlet with earth pin and cover plate white, glossy, enhanced 6768720210 contact protection IEC 60884-1
polar white, glossy,
67687209
enhanced contact protection IEC 60884-1
16 A, 250 V~

With centre plate as per DIN 49075
Connection terminals IEC 60884-1

- 2pole + earth
- with screw-in lift terminals


Socket outlet with earth pin and centre plate $50 \times 50 \mathrm{~mm}$ white, glossy, enhanced 67687601 contact protection IEC
60884-1
$16 \mathrm{~A}, 250 \mathrm{~V}$ ~
Ion page T6

With centre plate as per DIN 49075
Connection terminals IEC 60884-1

- 2pole + earth
- with plug-in terminals


## British Standard socket outlets



Socket outlet with earth contact, British Standard, can be switched off white, with enhanced 634702 contact protection
polar white, with 634709
enhanced contact
protection
13 A, 250 V~
Equates to standard BS 1363: Part 2.
Not for the UK.

For fitting in standard wall boxes according to DIN 49073-1

- 2pole + earth
- without neon lamp
- without spreader claws
- with screw terminals


I on page T6
Socket outlet without earth contact
"Euro-American Standard"
white, glossy
polar white, glossy 417109
$15 \mathrm{~A}, 125 \mathrm{~V} \sim$
Only for Asia!

Connection terminals IEC 60884-1

- 2pole
- with screw terminals

Order no.
Packing
Order no.
unit


Order no.
Order no
Packing

| Rocker with imprint „0" and „,"" |  |  |
| :--- | :--- | :--- | :--- |
| white, glossy | $\mathbf{1 6 2 2} \mathbf{0 2}$ | 10 |
| polar white, glossy | $\mathbf{1 6 2 2} \mathbf{0 9}$ | 10 |
|  |  |  |
|  | for multi-pole rocker switch with predefined 0 <br> position |  |


| 1 | Rocker with red lens and „0" and „1" imprint |  |  |
| :---: | :---: | :---: | :---: |
|  | white, glossy | 162402 | 10 |
|  | polar white, glossy | 162409 | 10 |
| 1 |  |  |  |
|  | ■ for multi-pole rocker switch with predefined 0 position <br> - for group push-button BCU 1gang <br> - for illumination and monitoring circuit |  |  |

## Rotary switches

| 0 | Centre plate with rotary knob for rotary switch |
| :---: | :---: |
| - | white, glossy 115002 |
|  | polar white, glossy 115009 |

polar white, glossy 115009

For rotary switch order no. 3862 ..

|  | $\boxed{\text { with imprint „0" and „1" }}$ |  |  |
| :--- | :--- | :--- | :--- |
| Rockers |  |  |  |
|  | Rockers |  |  |
|  | white, glossy | $\mathbf{1 6 2 3} \mathbf{0 2}$ | 10 |
|  | polar white, glossy | $\mathbf{1 6 2 3} \mathbf{0 9}$ | 10 |



| - | Rocker screw-on with imprint „0" and „1" |  |  |
| :---: | :---: | :---: | :---: |
|  | white, glossy | 157302 | 10 |
|  | polar white, glossy | 157309 | 10 |
| 1 | For rocker switch 2pole on/off order no. 3032 .. For rocker switch 3pole on/off order no. 303303 |  |  |
|  | with cover plug for multi-pole ro position | ew fitting witch with |  |



Rocker screw-on with red lens and „0" and „1" imprint
white, glossy 15770210
polar white, glossy 157709

For rocker switch 2pole on/off order no. 3032 ..
For rocker switch 3pole on/off order no. 303303

■ with cover plug for screw fitting
■ for multi-pole rocker switch with predefined 0 position
■ for illumination and monitoring circuit

Order no.
Order no.

## Hotel card switch



Hotel card switch cover with imprint and red lens
white, glossy 164002
polar white, glossy 16400910

Max. card width 54 mm ;
Card strength $0,5-1,4 \mathrm{~mm}$
I on page T6
Other imprint on request!
For push-button insert for hotel card switch covers order no. 5051 02, 5051 03, 5052 01, 505601

| Pullcord switches/pullcord push-buttons |  |  |  |
| :--- | :--- | :--- | :---: |
|  | Centre plate for pullcord switch |  |  |
| and pullcord push-button |  |  |  |

- for barrier-free construction
- for rocker switches change-over, intermediate
- for rocker push-buttons
- for push-button BCU 1gang and group push-button BCU 1gang
- for illumination and monitoring circuit


Rocker with red lens
and touchable symbol light
polar white, glossy 165149
10

An optical accentuation can be achieved by using a contrast frame order no. 101145

Barrier-free building based on DIN 18025

- for barrier-free construction
- for rocker switches change-over, intermediate
- for rocker push-buttons
- for illumination and monitoring circuit
- for push-button BCU 1gang and group push-button BCU 1gang



## Rocker with red lens <br> and touchable symbol bell <br> polar white, glossy 165159

An optical accentuation can be achieved by using a contrast frame order no. 101145

Barrier-free building based on DIN 18025

- for barrier-free construction
- for illuminated rocker push-buttons
- for push-button BCU 1gang


Rocker with red lens
and touchable symbol door
polar white, glossy 165169
10

An optical accentuation can be achieved by using a contrast frame order no. 101145

Barrier-free building based on DIN 18025
■ for barrier-free construction

- for illuminated rocker push-buttons

■ for push-button BCU 1gang


Pullcord switch with centre plate white, glossy, change- 61396602 over
polar white, glossy, 61396609 change-over

10 AX, 250 V~
Pullcord connection 14 cm
For wall and ceiling mounting.

- with plug-in terminals
- without spreader claws



## 3-step switches



Centre plate with rotary knob for 3-step switch
white, glossy, without 1084021 0 -position
polar white, glossy, 1084091 without 0-position
white, glossy, with neutral-position
polar white, glossy, 1096091
with neutral-position

For 3-step switch with 0-position order no. 3861
For 3-step switch without 0-position order
no. 3861 01, 61386101

- with imprint

Order no.
Order no.
Packing
unit


## Key switches/key push-buttons for shutters



Centre plate with lock
for key switch for shutters
white, glossy, key remo- 108102
vable in mid position
polar white, glossy,
108109
key removable in mid
position
white, glossy, key remo- 1082021
vable in 3 positions
polar white, glossy, key 108209
removable in 3 positions

For key switch for shutters order no. 3851, 3852

■ with imprint

- with push lock function

■ with 2 keys


Centre plate with lock
for key switch for shutters
white, glossy, key remo- 108302
vable in mid position
polar white, glossy, 108309
key removable in mid
position

For key switch for shutters order no. 3851, 3852

■ with imprint
■ only push-button function
■ with 2 keys


| Key switches/key push-buttons |  |  |  |
| :---: | :---: | :---: | :---: |
|  | Centre plate for key switch/key push-button |  |  |
|  | white, glossy | 150712 | 10 |
|  | polar white, glossy | 150719 | 10 |
|  | Profile half cylinders see Module inserts. |  |  |
|  | For key switch order no. 382610 For key push-button order no. 385620 |  |  |
|  | for profile half cylinders <br> for master-key systems |  |  |
| RCD PROTECTION SWITCH |  |  |  |
| 5 | $50 \times 50 \mathrm{~mm}$ centre plate for RCD protection switch |  |  |
|  | white, glossy | 149302 | 1 |
|  | polar white, glossy | 149309 | 1 |
|  | polar white, matt/velvety | 14931909 | 1 |
|  | anthracite, matt | 14931606 | 1 |
|  | brown, glossy | 149301 | 1 |
|  | stainless steel, lacquered | 149304 | 1 |
|  | aluminium, matt | 14931404 | 1 |
|  | light bronze, lacquered | 149311 | 1 |

Attention!
Use only with intermediate ring for $50 \times 50 \mathrm{~mm}$ centre plate of the corresponding range.
For RCD protection switch order no. 2844

## PUSH-BUTTONS

Stairwell push-button E10 complete
white, glossy 510102
250 V~
Momentary-contact current 2 A
LEDs and neon lamps E10-see Modul inserts / accessories order no. 1601

- with insert, frame, centre plate and red button
- without neon lamp
- NO contact

■ with screw terminals

## BLANK PLATES



| Blank plate with centre plate <br> white, glossy, without | $\mathbf{1 0 0 9} 02$ | 20 |
| :--- | :---: | :---: |
| spreader claws <br> polar white, glossy, <br> without spreader claws | $\mathbf{1 0 0 9} 09$ | 20 |
| white, glossy, with base <br> and spreader claws <br> polar white, glossy, <br> with base and spreader <br> claws | $\mathbf{6 7 1 0 0 9} \mathbf{0 7 1 0 0 9 0 9}$ | 10 |

[^2]Order no.

unit

| PILOT LAMPS |  |
| :---: | :---: |
|  | Centre plate for push-button <br> and pilot lamp E10 <br> Cut-out diameter 27,3 mm <br> Push-buttons, LEDs, neon lamps and covers see module inserts. <br> For push-button and pilot lamp E10 order no. 5101 .. <br> - centre plate plug-in fixing |
|  | Centre plate with labelling field for pushbutton and pilot lamp E10 <br> Cut-out diameter $27,3 \mathrm{~mm}$ <br> Push-buttons, LEDs, neon lamps and covers see module inserts. <br> Labelling field height arranged for 9 mm P-touch strips. <br> For push-button and pilot lamp E10 order no. 5101 .. <br> - centre plate plug-in fixing |
| $\bullet$ | Centre plate for pilot lamp E14   <br> white, glossy $\mathbf{1 1 9 8 0 2}$  <br> polar white, glossy $\mathbf{1 1 9 8 0 9}$ 10 <br> LEDs, incandescent lamps and covers see module inserts. <br> For pilot lamp E14 order no. 513102 |
| Besetzt | Info pilot lamp cover with 5 label sheets <br> Current input 25 mA ; <br> LED output 800 mW |
| 1 on page T29 | Labels supplied: „Nicht eintreten", „Besetzt", „Bitte eintreten", „Bitte Ruhe", „Bitte warten". <br> Coloured cover plate see module inserts order no. 1289 .. <br> For insert info pilot lamp order no. 2949 <br> ■ with 4 light intensity LED <br> ■ very long LED lifetime <br> ■ with clear cover plate |

TIMERS


Centre plate with setting knob for mechanical timer
white, glossy, 1632021
max. 15 min
1
polar white, glossy, 1632091
max. 15 min
white, glossy, 163302
1
max. 120 min
polar white, glossy, $163309 \quad 1$
max. 120 min

Mechanical automatic timer 15 min order no. 2040 Mechanical automatic timer 120 min order no. 2041

- with time scale imprint



## Easy timer with display

| white, glossy | $\mathbf{1 7 3 5 0 2}$ | 1 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 7 3 5 0 9}$ | 1 |

Per programme block 2 switching times for „on/off"; Power reserve approx. 4 hrs., maintenance-free

I on page T7
For manual and timer programmed switching of electrical loads.

For insert for timer order no. 2948

- simple programming of switching times

■ with quick programming mode

- for approx. 4 h after removing insert programmable
$\square 2$ programme blocks Mon. - Fri. and Sat. - Sun.
- with automatic summer-/winter time switching (can be switched off)
- large-area display with symbols
- display of next switching time
$\square$ with slide switch for manual/automatic


1 on page T7

## Timer with display

| white, glossy | $\mathbf{1 7 3 6 0 2}$ | 1 |
| :--- | :--- | :--- |
| polar white glossy | $\mathbf{1 7 3 6 0 9}$ | 1 |

polar white, glossy 173609
Switching times 18 for on/off;
Random generator $+/-15 \mathrm{~min}$.;
Astronomic time shift $+/-2$ hrs.;
Power reserve approx. 24 hrs.;

Countdown function 0-23 hrs. 59 min .
For manual and timer programmed switching of electrical loads.

For insert for timer order no. 2948

- with imprint in German
- with pre-set base programme
- 2 independent programme memories for everyday/ holidays
- with week and day programme
- with slide switch from summer to winter time
- astro programme for sunrise/sundown switching

■ large-area display with symbols

- with slide switch for manual/automatic

Order no
Order no


1 on page T9

Rotary dimmer with cover plate and setting knob Modul 2
white, glossy 281902
polar white, glossy 281909
230 V~, 50 Hz
230 V incandescent and halogen lamps 60-400 W;
LV power boosters built-in max. 10;
Axial dimension diameter 4 mm

Cover plate order no. 1130 ..
Centre plate order no. 1134 .., 1135 .., 1137 ..


■ with rotary on/off switch

- bulb-preserving soft startup

■ short-circuit and overload proof (fine-wire fuse)

- phase cut-on
- with screw terminals


## SPEED CONTROLLERS



Centre plate with setting knob
for speed controller

| white, glossy | 113722 | 1 |
| :--- | ---: | ---: |
| polar white, glossy | 113729 | 10 |

Axial dimension diameter 4 mm

For speed controller order no. 296801

- with imprinted symbol curve

UNIVERSAL SERIES TOUCH DIMMERS


Button for universal series touch dimmer
white, glossy 176502
polar white, glossy 1765091

For universal series touch dimmer order no. 2901
I on page T10

- for 2 independent lighting groups
- with 2-push-buttons operation concept per series


## BLC BERKER LIGHT CONTROL

Buttons


I on page T12
For BLC universal touch dimmer order no. 2902
For BLC touch control unit 1-10 V order no. 2903 For BLC touch dimmer LV order no. 2904
For BLC triac switch insert LV order no. 2905
For BLC relay switch insert order no. 2906
For BLC relay switch insert with potential-free contact order no. 290610
For BLC extension unit order no 2907
For BLC relay switch insert HVAC order no. 2912
For BLC Tronic switch insert order no. 2916
For BLC stair light time switching impulse insert order no. 293410

■ with 2-push-buttons operation concept

- switch-on brightness for BLC dimmer insert mainsfailure protection storable
- with BLC relay switch insert HVAC used as timer as well

Order no.
Packing
unit
Radio buttons
?

1 on page T12

| BLC radio button |  |  |
| :--- | :--- | :--- |
| white, glossy | $\mathbf{1 7 6 0} \mathbf{0 2}$ | 1 |
| polar white, glossy | $\mathbf{1 7 6 0} \mathbf{0 9}$ | 1 |

Radio signal reception frequency $433,42 \mathrm{MHz}$; Learnable radio transmitters 30

Extension unit operation with BLC extension unit and push-button (NO) possible as of release R2.1.

For actuation via button and radio transmitter.
For BLC universal touch dimmer order no. 2902 For BLC touch control unit 1-10 V order no. 2903
For BLC touch dimmer LV order no. 2904
For BLC triac switch insert LV order no. 2905
For BLC relay switch insert order no. 2906
For BLC relay switch insert with potential-free contact order no. 290610
For BLC relay switch insert HVAC order no. 2912
For BLC Tronic switch insert order no. 2916

- with 2-push-buttons operation concept
- with 5 light scenes for „on/off", dimming value
- retrieving light scenes only by using radio transmitter
- radio signal of taught-in radio controller activates for 1 minute (subsequently triggered)
- switch-on brightness for BLC dimmer insert mainsfailure protection storable
- reset function (to factory setting)

Order no.
Packing
unit

## BLC Controllers

BLC controller 1.1m
white, glossy $178302 \quad 1$
polar white, glossy 1783091
Nominal mounting height $1,1 \mathrm{~m}$;
Range frontal approx. 10 m ;
Range lateral each approx. 6 m
I on page T15 Detection field semi-oval shaped approx. $10 \times 12 \mathrm{~m}$; Detection angle $180^{\circ}$;
Detection levels 2;
Switching segments 72 ;
Response sensitivity programmable
approx. 20-100 \% ;
Response brightness adjustable approx. 0-80/
unlimited Lux;
Delay time approx. 2 min.;
Operating temperature $-20-+45^{\circ} \mathrm{C}$;
Dimensions assembling height $23,5 \mathrm{~mm}$
Direct sunlight penetration the upward-pointing detection plane results in failure of the movement controller. Only suitable for interiors!

Switches on for the duration of the controller delay time in case minimum response brightness level is infringed and if movement of people is detected. In conjunction with a BLC relay switch unit HVAC, the HVAC-channel is also switched on for the duration of its delay time independent of response brightness.

For BLC universal touch dimmer order no. 2902
For BLC touch control unit 1-10 V order no. 2903 For BLC touch dimmer LV order no. 2904
For BLC triac switch insert LV order no. 2905
For BLC relay switch insert order no. 2906
For BLC relay switch insert with potential-free contact order no. 290610
For BLC controller extension unit order no. 2908 For BLC relay switch insert HVAC order no. 2912
For BLC Tronic switch insert order no. 2916
For BLC stair light time switching impulse insert order no. 293410

- activation by push-button opener in the cable
- with cover to limit detection angle to $90^{\circ}$

Order no.

| BLC controller 2.2m |  |  |
| :--- | :--- | :--- |
| white, glossy $* 1788$ <br> polar white, glossy  | $\boldsymbol{* 1 7 8 8} \mathbf{0 9}$ | 1 |
| N |  |  |

Nominal mounting height $2,2(1,1) \mathrm{m}$;
Range frontal approx. 12 (6) m;
1 on page T20
Range lateral each approx. 6 (3) m;
Detection field semi-oval shaped approx. $12 \times 12 \mathrm{~m}$; Detection angle $180^{\circ}$;
Detection levels 6;
Switching segments 268;
Response brightness (learnable) approx. 10 lx ;
Delay time approx. 2 min.;
Operating temperature $-15-+45^{\circ} \mathrm{C}$
As delivered and reset condition: response brightness 10 lx .

Switches on for the duration of the motion detector delay time in case minimum response brightness level is infringed and if movement of people is detected.
In conjunction with a BLC relay switch unit HVAC, the HVAC-channel is also switched on for the duration of its delay time independent of response brightness.

For BLC universal touch dimmer order no. 2902
For BLC touch control unit 1-10 V order no. 2903
For BLC touch dimmer LV order no. 2904
For BLC triac switch insert LV order no. 2905
For BLC relay switch insert order no. 2906
For BLC relay switch insert with potential-free contact order no. 290610
For BLC controller extension unit order no. 2908
For BLC relay switch insert HVAC order no. 2912
For BLC Tronic switch insert order no. 2916
For BLC stair light time switching impulse insert order no. 293410

- with crawl-under protection
$\square \mu$-processor controlled operation (detection signal evaluation and interference signal suppression)
■ glare-proof e.g. against a torch
■ no switch-on in case of inadvertent brief shadowing
$\square$ with adaptive sensitivity adjustment
- switch-on brightness for BLC dimmer insert with hand transmitter and BLC extension unit storable
- dimming insert switch-off advance warning (30 s dimming process)
■ with teach function for response brightness
■ activation by push-button opener in the cable

Order no.


I on page T15

BLC controller 180
white, glossy \#178602 1
polar white, glossy \#1786 091
Nominal mounting height 2,2 m;
Range frontal approx. 12 m ;
Range lateral each approx. 6 m ;
At assembly height $1,1 \mathrm{~m}$;
Range frontal approx. 6 m
Range lateral each approx. 3 m ;
Detection field semi-oval shaped approx. $12 \times 12 \mathrm{~m}$;
Detection angle $180^{\circ}$;
Detection levels 3;
Switching segments 104;
Response sensitivity programmable
approx. 20-100 \% ;
Response brightness adjustable approx. 0-80 / unlimited Lux;
Delay time approx. 2 min.;
Operating temperature $-20-+45^{\circ} \mathrm{C}$;
Dimensions assembling height $23,5 \mathrm{~mm}$
Switches on for the duration of the controller delay time in case minimum response brightness level is infringed and if movement of people is detected. In conjunction with a BLC relay switch unit HVAC, the HVAC-channel is also switched on for the duration of its delay time independent of response brightness.

For BLC universal touch dimmer order no. 2902
For BLC touch control unit 1-10 V order no. 2903
For BLC touch dimmer LV order no. 2904
For BLC triac switch insert LV order no. 2905
For BLC relay switch insert order no. 2906
For BLC relay switch insert with potential-free contact order no. 290610
For BLC controller extension unit order no. 2908
For BLC relay switch insert HVAC order no. 2912
For BLC Tronic switch insert order no. 2916
For BLC stair light time switching impulse insert order no. 293410

■ activation by push-button opener in the cable
■ with cover to limit detection angle to $90^{\circ}$

Order no.
Order no.
unit


I on page T15

| BLC controller comfort $\mathbf{1 , 1} \mathbf{~ m}$ |  |  |
| :--- | ---: | ---: |
| white, glossy | $\mathbf{1 7 8 4 0 2}$ | 1 |
| polar white, glossy | $\mathbf{1 7 8 4} 09$ | 1 |

Nominal mounting height 1,1 m;
Range frontal approx. 10 m ;
Range lateral each approx. 6 m;
Detection field semi-oval shaped approx. $10 \times 12 \mathrm{~m}$; Detection angle $180^{\circ}$;
Detection levels 2;
Switching segments 72;
Response sensitivity programmable
approx. 20-100 \% ;
Response brightness adjustable approx. 0-80 /
unlimited Lux;
Delay time adjustable approx. 10 sec.- 30 min .;
Time to dim down 30 sec .;
Step operation 0,5 sec.;
Immunity time approx. 3 sec.;
Operating temperature $-20-+45^{\circ} \mathrm{C}$;
Dimensions assembling height $23,5 \mathrm{~mm}$
Direct sunlight penetration the upward-pointing detection plane results in failure of the movement controller. Only suitable for interiors!

Switches on for the duration of the motion detector delay time in case minimum response brightness level is infringed and if movement of people is detected.
In conjunction with a BLC relay switch unit HVAC, the HVAC-channel is also switched on for the duration of its delay time independent of response brightness

For BLC universal touch dimmer order no. 2902 For BLC touch control unit 1-10 V order no. 2903
For BLC touch dimmer LV order no. 2904
For BLC triac switch insert LV order no. 2905
For BLC relay switch insert order no. 2906
For BLC relay switch insert with potential-free contact order no. 290610
For BLC controller extension unit order no. 2908
For BLC relay switch insert HVAC order no. 2912 For BLC Tronic switch insert order no. 2916
For BLC stair light time switching impulse insert order no. 293410

- with slide switch for off/automatic/on
$\square \mu$-processor controlled operation (detection signal evaluation and interference signal suppression)
■ glare-proof e.g. against a torch
■ no switch-on in case of inadvertent brief shadowing
- with adaptive sensitivity adjustment
$\square$ with teach function for response brightness
■ step operation with immunity time (e.g. for bell)
$\square$ switch-on brightness in conjunction with BLC dimmer inserts can only be saved via BLC extension unit
■ with dimming function (soft-off) when using BLC dimmer inserts
■ activation by push-button opener in the cable
$\square$ with cover to limit detection angle to $90^{\circ}$


I on page T20

BLC IR controller comfort 2,2 m
white, glossy *178902 1
polar white, glossy *178909 1

Nominal mounting height $2,2(1,1) \mathrm{m}$;
Range frontal approx. 12 (6) m;
Range lateral each approx. 6 (3) m;
Detection field semi-oval shaped approx. $12 \times 12 \mathrm{~m}$;
Detection angle $180^{\circ}$;
Detection levels 6;
Switching segments 268;
Response sensitivity stages 25/50/75/100 \%;
Response brightness stages 1/10/150/250 Lux;
Delay time adjustable approx. $10 \mathrm{sec} .-60 \mathrm{~min}$. ;
Step operation $0,3 \mathrm{sec}$.;
Limit shutdown after max. 90 min.;
Operating temperature $-15-+45^{\circ} \mathrm{C}$
Full range of functions only with hand transmitter for BLC IR controller. As-delivered and reset condition: Response sensitivity $100 \%$, time delay 30 s, night mode approx. 1 lx , additional functions OFF.

Switches on for the duration of the motion detector delay time in case minimum response brightness level is infringed and if movement of people is detected.
In conjunction with a BLC relay switch unit HVAC, the HVAC-channel is also switched on for the duration of its delay time independent of response brightness.

## Adjustable with hand transmitter for BLC IR

 controller order no. 2770For BLC universal touch dimmer order no. 2902
For BLC touch control unit 1-10 V order no. 2903
For BLC touch dimmer LV order no. 2904
For BLC triac switch insert LV order no. 2905
For BLC relay switch insert order no. 2906
For BLC relay switch insert with potential-free contact order no. 290610
For BLC controller extension unit order no. 2908
For BLC relay switch insert HVAC order no. 2912
For BLC Tronic switch insert order no. 2916
For BLC stair light time switching impulse insert order no. 293410
$\square$ with 2 buttons for permanent ON (LED green), permanent OFF (LED red) and automatic
$\square$ with detection and IR receiver LED red, and IR confirmation LED green

- with crawl-under protection
- $\mu$-processor controlled mode of operation
- glare-proof e.g. against a torch

■ no switch-on in case of inadvertent brief shadowing

- with adaptive sensitivity adjustment
$\square$ switch insert switch-off advance warning ( $3 x$ alternately 0.2 s OFF/10 s ON) via remote control
$\square$ dimming insert switch-off advance warning ( 30 s dimming process)
- switch-on brightness for BLC dimmer insert with hand transmitter and BLC extension unit storable
- angle of detection limiter by means of sensor cutoff via remote control
■ Short-time mode with immunity time (e.g. for bell) via remote control
Hotel mode via remote control: without motion is dimmed to $20 \%$
■ test mode via remote control: response sensitivity $100 \%$, time delay 1 s and day mode
■ Presence simulation via remote control: Retrieval of the switching operations from the last 7 days
- activation by push-button opener in the cable
- with teach function for response brightness

Order no.
Packing
unit

## BLC controller 180 comfort with slide switch

 for off/automatic/onwhite, glossy \#1787 02
polar white, glossy \#1787 09
Nominal mounting height 2,2 m;
Range frontal approx. 12 m ;
1 on page T15
Range lateral each approx. 6 m ;
At assembly height $1,1 \mathrm{~m}$;
Range frontal approx. 6 m ;
Range lateral each approx. 3 m ;
Detection field semi-oval shaped approx. $12 \times 12 \mathrm{~m}$;
Detection angle $180^{\circ}$;
Detection levels 3;
Switching segments 104
Response sensitivity programmable
approx. 20-100 \% ;
Response brightness adjustable approx. 0-80/
unlimited Lux;
Delay time adjustable approx. 10 sec.- 30 min . ;
Time to dim down 30 sec.;
Step operation $0,5 \mathrm{sec}$.;
Immunity time approx. 3 sec.;
Operating temperature $-20-+45^{\circ} \mathrm{C}$;
Dimensions assembling height $23,5 \mathrm{~mm}$
Switches on for the duration of the delay time set on the controller in case minimum response brightness level is infringed and if movement of people is detected.
In conjunction with a BLC relay switch unit HVAC, the HVAC-channel is also switched on for the duration of its delay time independent of response brightness.

For BLC universal touch dimmer order no. 2902 For BLC touch control unit 1-10 V order no. 2903
For BLC touch dimmer LV order no. 2904
For BLC triac switch insert LV order no. 2905
For BLC relay switch insert order no. 2906
For BLC relay switch insert with potential-free contact order no. 290610
For BLC controller extension unit order no. 2908
For BLC relay switch insert HVAC order no. 2912 For BLC Tronic switch insert order no. 2916
For BLC stair light time switching impulse insert
order no. 293410

- $\mu$-processor controlled operation (detection signal evaluation and interference signal suppression)
- glare-proof e.g. against a torch

■ no switch-on in case of inadvertent brief shadowing
■ with adaptive sensitivity adjustment

- with teach function for response brightness
- step operation with immunity time (e.g. for bell)
- switch-on brightness in conjunction with BLC dimmer inserts can only be saved via BLC extension unit
- with dimming function (soft-off) when using BLC dimmer inserts
- activation by push-button opener in the cable
- with cover to limit detection angle to $90^{\circ}$

THERMOSTATS
 Room thermostat with NC contact, centre plate, rocker switch and LED
white, glossy 2030021
polar white, glossy 2030091
$5-30^{\circ} \mathrm{C}, 50 / 60 \mathrm{~Hz}$
Rated voltage $250 \mathrm{~V} \sim$;
I on page T34 Switching current 10 A ; Inductive load at $\cos \varphi 0,6$ max. 4 A ; Switching temperature difference approx. $0,5^{\circ} \mathrm{C}$; Night lowering approx. $4^{\circ} \mathrm{C}$

Neutral conductor necessary!
If the pre-set temperature is reached the contact opens.

Replacement centre plate order no. 1671 02, 167109 Suitable valve drive order no. 75900076

■ with imprint

- setting knob with temperature range limitation
- with on/off switch and indicator LED for „on"
- with thermal return
- with separate connection for night lowering
- e.g. for valve drives closed in de-energized state
- without spreader claws
- with plug-in terminals


Room thermostat 24 V with NC contact, centre plate, rocker switch and LED
white, glossy 203102
polar white, glossy 203109
$5-30^{\circ} \mathrm{C}, 50 / 60 \mathrm{~Hz}$
Rated voltage 24 V ;
I on page T34 Switching current $10 \mathrm{~A} \sim$;
Rated voltage $24 \mathrm{~V}=$;
Switching current $4 \mathrm{~A}=$;
Switching temperature difference approx. $0,5^{\circ} \mathrm{C}$;
Night lowering approx. $4^{\circ} \mathrm{C}$
If the pre-set temperature is reached the contact opens.

Replacement centre plate order no. 1671 02, 167109
Suitable valve drive order no. 75900077

- with imprint
- setting knob with temperature range limitation

■ with on/off switch and indicator LED for ,,on"

- with thermal return
- with separate connection for night lowering
- e.g. for valve drives closed in de-energized state
- without spreader claws
- with plug-in terminals


Centre plate with setting knob, rocker and lens for room thermostat with NC contact
white, glossy 167102
polar white, glossy 1671091
1

Replacement demand for order no. 2030 02, 2030 09, 2031 02, 203109

- with imprint

■ setting knob with temperature range limitation

Order no.
Packing
unit


1) on page T34

Rated voltage $250 \mathrm{~V} \sim$;
Switching current „heating" 10 A;
Switching current "heating" at $\cos \varphi 0.64 \mathrm{~A}$;
Switching current „cooling" 5 A;
Switching current "cooling" at $\cos \varphi 0.62 \mathrm{~A}$;
Switching temperature difference approx. $0,5^{\circ} \mathrm{C}$
Neutral conductor necessary!
If the pre-set temperature is reached the contact changes.

Replacement centre plate order no. 1670 02, 167009 Suitable valve drive order no. 75900076

- with imprint
- setting knob with temperature range limitation
$\square$ for heating or cooling mode
$■$ e.g. for valve drives closed in de-energized state
- with thermal return
$\square$ without spreader claws
- with plug-in terminals


| Centre plate with setting knob for room <br> thermostat with change-over contact |
| :--- | :--- |
| white, glossy 167002 1 <br> polar white, glossy 167009 1 |

Replacement demand for order no. 2026 02, 202609

- with imprint
- setting knob with temperature range limitation


Floor thermostat with NO contact, centre plate, rocker switch, 2 LEDs and floor temperature sensor
white, glossy 2034021
polar white, glossy 2034091
$10-50{ }^{\circ} \mathrm{C}, 50 / 60 \mathrm{~Hz}$
I on page T34 Rated voltage 250 V ; ;
Switching current 10 A;
Switching temperature difference approx. $1^{\circ} \mathrm{C}$;
Night lowering approx. $5^{\circ} \mathrm{C}$;
Sensor cable length 4 m
Neutral conductor necessary!
If the temperature falls under the pre-set value the contact closes.

Replacement floor temperature sensor / remote sensor order no. 0161
Replacement centre plate order no. 1672 02, 167209
Suitable valve drive order no. 75900076

- with imprint
- setting knob with temperature range limitation

■ with on/off switch and 2 LEDs
$\square$ with LED for heating and LED for night lowering
$\square$ with separate connection for night lowering
$■$ e.g. for valve drives closed in de-energized state

- without spreader claws
- with plug-in terminals

Order no.


Centre plate with setting knob, rocker and lenses for floor temperature thermostat
white, glossy 1672021
polar white, glossy 167209

Replacement demand for order no. 2034 02, 203409

- with imprint

■ setting knob with temperature range limitation

## Sensor insert

Central plate for sensor insert

| white, glossy | $\mathbf{7 5 9 4 0 4 0 2}$ | 1 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{7 5 9 4 0 4 0 9}$ | 1 |
| polar white, matt/velvety | $\mathbf{7 5 9 4 0 4 8 9}$ | 1 |
| anthracite, matt | $\mathbf{7 5 9 4 0 4 8 5}$ | 1 |
| aluminium, matt | $\mathbf{7 5 9 4 0 4 8 3}$ | 1 |
| stainless steel, $\mathbf{7 5 9 4 0 4 0 3}$ <br> lacquered  <br> light bronze, lacquered $\mathbf{7 5 9 4 0 4 0 4}$ | 1 |  |

Attention!
Use only with intermediate ring for central plate from the corresponding range.
Labelling field not usable.
Sensor insert order no. 75941001
$\square$ with slots for air circulation
■ for e.g. temperature sensor PT100

## ROLLOTEC

## Comfort buttons



I on page T37

## RolloTec button comfort

| white, glossy | $\mathbf{1 7 7 0 1 2}$ | 1 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 7 7 0 4 9}$ | 1 |

Learnable running time $0,5 \mathrm{sec}$.- 2 min.;
Lamella adjustment with signal < 1 sec .;
Locked for 2 min . upon actuation $1-4 \mathrm{Sec}$.

For RolloTec standard insert without neutral conductor connection order no. 2911
For RolloTec standard insert order no. 2925
For Rollotec comfort insert order no. 2975
For RolloTec comfort insert for direct current drives order no. 297501

■ with imprinted symbol arrows

- with lock-out protection e.g. for shutter control terrace door
- Activation of the anti-lockout device in the upper end position by touching in the UP direction for
- with indicator LED for lock-out protection

Order no.
RolloTec button comfort
with sensor connection
white, glossy $\quad 177112$
polar white, glossy $\quad 177149$
Brightness value sun approx. $5-80$ kLux;
Learnable running time 0,5 sec.- 2 min.;
Lamella adjustment with signal < 1 se.;
Locked for 2 min. upon actuation $1-4$ Sec.

For RolloTec brightness sensors order no. 0169, 0184
For RolloTec glass breakage sensor order no. 0170 For RolloTec adapter for sensors order no. 0171
For RolloTec standard insert without neutral conductor connection order no. 2911
For RolloTec standard insert order no. 2925
For Rollotec comfort insert order no. 2975
For RolloTec comfort insert for direct current drives order no. 297501
For magnetic contact order no. 9251 ..

- with lock-out protection e.g. for shutter control terrace door
■ Activation of the anti-lockout device in the upper end position by touching in the UP direction for
■ with indicator LED for lock-out protection
■ brightness value for sunblind individually adjustable
$■$ on brightness sensor surface-mounted, the taught-in running time for sun protection movement is used
■ no twilight sensor function
■ only for sensor connection to terminal block


## Radio buttons



I on page T37

## RolloTec radio button <br> white, glossy 175812 <br> polar white, glossy 1758491

Radio signal reception frequency 433,42 MHz;
Learnable radio transmitters 30 ;
Lamella adjustment with signal $<1 \mathrm{sec}$.;
Self-sustaining for 2 min . with signal $>1 \mathrm{sec}$.

For actuation via button and radio transmitter
For RolloTec standard insert without neutral conductor connection order no. 2911
For RolloTec standard insert order no. 2925
For Rollotec comfort insert order no. 2975
For RolloTec comfort insert for direct current drives order no. 297501

■ with 5 light scenes for „open/close"
■ retrieving light scenes only by using radio transmitter


1 on page T37

RolloTec radio button with sensor connection | white, glossy | 175912 | 1 |
| :--- | :--- | :--- | polar white, glossy 175949

Radio signal reception frequency $433,42 \mathrm{MHz}$; Learnable radio transmitters 30;
Brightness value sun approx. 5-80 kLux;
Lamella adjustment with signal < 1 sec .;
Self-sustaining for 2 min . with signal $>1 \mathrm{sec}$.
For actuation via button and radio transmitter.
For RolloTec brightness sensors order no. 0169, 0184
For RolloTec glass breakage sensor order no. 0170
For RolloTec adapter for sensors order no. 0171
For RolloTec standard insert without neutral conductor connection order no. 2911
For RolloTec standard insert order no. 2925
For Rollotec comfort insert order no. 2975
For RolloTec comfort insert for direct current drives order no. 297501
For magnetic contact order no. 9251 .

■ with 5 light scenes for „open/close"

- retrieving light scenes only by using radio transmitter
■ brightness value for sunblind individually adjustable
- no twilight sensor function

■ only for sensor connection to terminal block
Memory buttons


I on page T37

RolloTec memory button

| white, glossy | 175612 | 1 |
| :--- | :--- | :--- |
| pory | 175649 |  |

polar white, glossy 175649
Lamella adjustment with signal < 1 sec .
Self-sustaining for 2 min . with signal $>1 \mathrm{sec}$.;
Storage of "up/down" time with signal $>3,5 \mathrm{sec}$.
Stored „up" and/or „down" time is run daily in automatic operation.

For manual and timer programmed running of awnings, shutters and blinds.

For RolloTec standard insert without neutral conductor connection order no. 2911
For RolloTec standard insert order no. 2925
For Rollotec comfort insert order no. 2975
For RolloTec comfort insert for direct current drives order no. 297501

Order no.
Order no.


RolloTec memory button
with sensor connection
white, glossy 175712
polar white, glossy 1757491
Brightness value sun approx. 20 kLux;
Lamella adjustment with signal < 1 sec.;
1 on page T37 Self-sustaining for 2 min . with signal $>1 \mathrm{sec}$.;
Storage of "up/down" time with signal $>3,5$ sec.
Stored „up" and/or "down" time is run daily in automatic operation.

For manual and timer programmed running of awnings, shutters and blinds.

For RolloTec brightness sensors order no. 0169, 0184
For RolloTec glass breakage sensor order no. 0170
For RolloTec adapter for sensors order no. 0171
For RolloTec standard insert without neutral conductor connection order no. 2911
For RolloTec standard insert order no. 2925
For Rollotec comfort insert order no. 2975
For RolloTec comfort insert for direct current drives order no. 297501
For magnetic contact order no. 9251 ..

- no twilight sensor function

■ only for sensor connection to terminal block

## Timer switches



## RolloTec easy timer with display

| white, glossy | $\mathbf{1 7 6 2 0 2}$ | 1 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 7 6 2 0 9}$ | 1 |

Operation times 2 up/down;
Power reserve approx. 6 hrs., maintenance-free; Lamella adjustment with signal < 1 sec.;
Self-sustaining for 2 min . with signal $>1 \mathrm{sec}$.
No extension units and sensor signals or central commands will be processed.

For manual and timer programmed running of awnings, shutters and blinds.

For RolloTec standard insert without neutral conductor connection order no. 2911
For RolloTec standard insert order no. 2925
For Rollotec comfort insert order no. 2975
For RolloTec comfort insert for direct current drives order no. 297501

■ with imprint in German
$\square$ with pre-set base programme

- simple programming of operation times
$\square$ with quick programming mode
■ programming possible for up to 6 h after removing insert
- 2 programme blocks Mon. - Fri. and Sat. - Sun.
- large-area display
- with slide switch for manual/automatic


1 on page T37

RolloTec timer comfort with display

| white, glossy | $\mathbf{1 7 7 4 0 2}$ | 1 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 7 7 4 0 9}$ | 1 |

Operation times 18 up/down;
Random generator +/- 15 min.;
Power reserve approx. 3 hrs., maintenance-free;
Astronomic time shift +/- 2 hrs.;
Learnable down time 1 sec.- 6 min.;
Lamella adjusting time 0-5 sec.;
Lamella adjustment with signal $<1 \mathrm{sec}$.; Lock at touching > 1 sec.

For manual and timer programmed running of awnings, shutters and blinds.

For RolloTec standard insert without neutral conductor connection order no. 2911
For RolloTec standard insert order no. 2925
For Rollotec comfort insert order no. 2975
For RolloTec comfort insert for direct current drives order no. 297501

- with German display text
$\square$ with totally 3 independent programme memories
■ 2 programme memories pre-set
- programming according to week and days possible
- programme memory network failure proved
- with automatic summer-/winter time switching (can be switched off)
- astro programme for sunrise/sundown running
- large-area display with symbols
- indication of the next operation schedule under consideration of astro and coincidence function
- with slide switch for manual/automatic

■ lock out protection because evaluation of the centre or extension unit commands can be switched off
■ lamella position programmable at down operation times

Order no.
Packing


## RolloTec timer comfort with display

 and sensor connection white, glossy 177502polar white, glossy 177509
1
Setting range sun approx. 1-76 kLux; Setting range twilight approx. 6-300 Lux; Operation times 18 up/down;
Random generator $+/-15 \mathrm{~min}$.;
Power reserve approx. 3 hrs., maintenance-free; Astronomic time shift $+/-2$ hrs.;
Learnable down time 1 sec.- 6 min.;
Lamella adjusting time 0-5 sec.;
Lamella adjustment with signal < 1 sec.;
Lock at touching > 1 sec .
For manual and timer programmed running of awnings, shutters and blinds.

For RolloTec brightness sensors order no. 0169, 0184
For RolloTec glass breakage sensor order no. 0170
For RolloTec adapter for sensors order no. 0171
For RolloTec standard insert without neutral conductor connection order no. 2911
For RolloTec standard insert order no. 2925
For Rollotec comfort insert order no. 2975
For RolloTec comfort insert for direct current drives order no. 297501
For magnetic contact order no. 9251 ..

■ with German display text
■ with totally 3 independent programme memories
■ 2 programme memories pre-set

- programming according to week and days possible

■ programme memory network failure proved
■ with automatic summer-/winter time switching (can be switched off

- astro programme for sunrise/sundown running

■ large-area display with symbols
■ indication of the next operation schedule under consideration of astro and coincidence function
■ with slide switch for manual/automatic
■ lock out protection because evaluation of the centre or extension unit commands can be switched off
■ lamella position programmable at down operation times
■ with surface-mounted RolloTec brightness sensor additionally settable with shutter and lamella pos.
■ connected RolloTec brightness sensor can be used for twilight-controlled lowering
■ con.surface-mounted RolloTec brightness sensor suitable for twilight-controlled raising and lowering
$\square$ for the sensor connection on the clamping block in the insert

Order no.

|  | $\begin{array}{rrr}\text { Order no. } & \text { Packing } \\ \text { unit }\end{array}$ |
| :---: | :---: |
| ENTERNTAINMENT ELECTRONICS |  |
| NEW | Radio Touch <br> polar white, glossy <br> *2880 09 $230 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}$ <br> Frequency range 87,5-108 MHz; <br> for loudspeaker 4-8 $\Omega$ /channel; <br> Dimensions of display $35 \times 28 \mathrm{~mm}$; <br> Conductor cross-section max. $2,5 \mathrm{~mm}^{2}$; <br> Installation depth 33 mm <br> For speaker order no. 288209 <br> For docking station order no. 288309 <br> CE with one loudspeaker <br> ■ illuminated touch graphics display <br> - operation via sensor areas of the touch display <br> - time and date display <br> - stereo FM radio with RDS display <br> ■ manual and automatic station search <br> - 8 station memory, non-volatile <br> ■ switch-on with last station <br> ■ volume control <br> - alarm clock <br> ■ sleep timer <br> - countdown <br> ■ external audio input e.g. for MP3 player or docking stations <br> ■ connection for a second speaker <br> - extension unit input for separate on/off switching <br> - single and combination installation <br> ■ with screw terminals |
| NEW | Radio Touch IP <br> polar white, glossy <br> *2881 09 <br> 230 V~, 50/60 Hz <br> Frequency range 87,5-108 MHz; <br> for loudspeaker 4-8 $\Omega$ /channel; <br> Dimensions of display $35 \times 28 \mathrm{~mm}$; <br> Conductor cross-section max. $2,5 \mathrm{~mm}^{2}$; <br> Installation depth 33 mm <br> Internet radio for receiving numerous national and international radio stations. <br> For speaker order no. 288209 <br> For docking station order no. 288309 <br> CE <br> ■ with one loudspeaker <br> ■ illuminated touch graphics display <br> - operation via sensor areas of the touch display <br> - time and date display <br> ■ stereo FM radio with RDS display and IP radio <br> ■ manual and automatic FM station search <br> ■ IP connectivity by means of WLAN <br> - a variety of transmitters divided into genres available <br> - 8 station memory, non-volatile <br> - switch-on with last station <br> - volume control <br> - alarm clock <br> - sleep timer <br> - countdown <br> ■ external audio input e.g. for MP3 player or docking stations <br> - connection for a second speaker <br> ■ extension unit input for separate on/off switching <br> $\square$ single and combination installation <br> ■ with screw terminals |

Order no.
Packing
unit

Speaker
polar white, glossy *2882 09
$8 \Omega$
Nominal/music power handling $4 / 8 \mathrm{~W}$;
Frequency response $(-3 \mathrm{~dB}) 170-20.000 \mathrm{~Hz}$;
Installation depth $22,5 \mathrm{~mm}$

For Radio Touch order no. 288009
For Radio Touch IP order no. 288109
For docking station order no. 288309
CE


## Docking station

polar white, glossy *288309 1
230 V , 50/60 Hz
Installation depth 36 mm
Similar to illustration.
For Radio Touch order no. 288009
For Radio Touch IP order no. 288109
For speaker order no. 288209
CE

- with 30pole plug connector for iPod and iPhone*
- buttons for volume control
- battery charging function for iPod and iPhone*

■ AUX input mini stereo jack for audio source (line or headphones output), e.g. MP3 player - stereo Line-Out for connection to the radio touch

- with screw terminals
* iPod and iPhone are registered trademarks of Apple Inc.


## TV/AUDIO/VIDEO

## Multimedia outlets



I on page T65
Especially suitable for connecting typical analogue audio and video devices such as receivers, hi-fi systems and DVD players.

Installation recommendation:
Company name Kaiser: „Electronic-Dose" for compliance with the permissible bending radii, Art.-No. 1068-02 or 9062-74
Company name Fränkische: „Multimedia-Rohr" for laying pre-assembled connection cable, Art.-No. 294.10.092
gold-plated contacts

- without spreader claws
- 2 cinch double jacks for audio connection (red, white)
■ 1 cinch double jack for video connection (yellow)
■ S-Video double jack

Order no.


I on page T65
Especially suitable for connecting PCs, notebooks, etc. with display devices such as monitors (including LCD monitors) and projectors.

Installation recommendation:
Company name Kaiser: „Electronic-Dose" for compliance with the permissible bending radii, Art.-No. 1068-02 or 9062-74
Company name Fränkische: „Multimedia-Rohr" for laying pre-assembled connection cable, Art.-No. 294.10.092

Please notice the maximum cable length of the cableand devices manufacturer.

■ S-VGA compatible
without spreader claws
■ with 15pole D-subminiature double jack


1 on page T65
$\begin{array}{lcc}l \\ \text { VGA socket with screw-in lift terminals } & \\ \text { white, glossy } \quad \star 33 \mathbf{1 5 4 1 0 2} & 10 \\ \text { polar white, glossy } \quad \star 33154109 & 10 \\ \text { Frequency range video max. } 160 \mathrm{MHz} \text {; } & \\ \text { Resolution max. } 1280 \times 1024 \mathrm{px} ; & \\ \text { Conductor cross-section max. } 1,5 \mathrm{~mm}^{2} & \end{array}$
Especially suitable for connecting PCs, notebooks, etc. with display devices such as monitors (including LCD monitors) and projectors.

Installation recommendation:
Company name Kaiser: „Electronic-Dose" for compliance with the permissible bending radii, Art.-No. 1068-02 or 9062-74
Company name Fränkische: „Multimedia-Rohr" for laying pre-assembled connection cable, Art.-No. 294.10.092

Please notice the maximum cable length of the cableand devices manufacturer.

- S-VGA compatible
- without spreader claws
- with 15 pole D-subminiature jack (front)
- with screw-in lift terminals for connection to 15-core VGA cable

Order no.
Order no.
Packing


USB/3.5 mm audio socket outlet
white, glossy *33 $153902 \quad 10$
polar white, glossy *33153909 10
Frequency range audio $20 \mathrm{~Hz}-20 \mathrm{KHz}$;
Transmission rate (USB) max. $480 \mathrm{MBit} / \mathrm{s}$
I on page T65
Especially suitable for connecting mobile devices, such as mobile phones or MP3 players (mini audio), digital cameras and computer peripherals (USB 2.0).

Installation recommendation:
Company name Kaiser: „Electronic-Dose" for compliance with the permissible bending radii, Art.-No. 1068-02 or 9062-74
Company name Fränkische: „Multimedia-Rohr" for laying pre-assembled connection cable,
Art.-No. 294.10.092

Please notice the maximum cable length of the cableand devices manufacturer.

■ without spreader claws
■ USB double jack type A, USB 2.0 capable
■ double jack gold-plated 3.5 mm , stereo


1 on page 765
High definition socket outlet
white, glossy *33154202 10
polar white, glossy *33154209 10
Video bandwidth max. 165 MHz ;
Resolution max. 1080p (1920 x 1080 px);
Frequency range (vertical) $50-85 \mathrm{~Hz}$;
Transmission rate max. $8,16 \mathrm{GBit} / \mathrm{s}$

Especially suitable for connecting digital high-end entertainment electronics devices for transmission of high-resolution audio and video signals, such as satellite receivers and DVD players, to LCD or plasma screens.

Installation recommendation:
Company name Kaiser: „Electronic-Dose" for compliance with the permissible bending radii, Art.-No. 1068-02 or 9062-74
Company name Fränkische: „Multimedia-Rohr" for laying pre-assembled connection cable, Art.-No. 294.10.092

Please notice the maximum cable length of the cableand devices manufacturer.

- gold-plated contacts
- without spreader claws

■ with HDMI ${ }^{T M}$ double jack type A, supports $\mathrm{HDMI}^{\text {TM }}$ technology (V 1.3 with Deep Color)


1 on page 165

High definition socket with $90^{\circ}$ plug connection
white, glossy *33154302 10
polar white, glossy *33154309 10

Video bandwidth max. 165 MHz ;
Resolution max. 1080p (1920 x 1080 px);
Frequency range (vertical) $50-85 \mathrm{~Hz}$;
Transmission rate max. 8,16 GBit/s
Especially suitable for connecting digital high-end entertainment electronics devices for transmission of high-resolution audio and video signals, such as satellite receivers and DVD players, to LCD or plasma screens.

Installation recommendation:
Company name Kaiser: „Electronic-Dose" for compliance with the permissible bending radii, Art.-No. 1068-02 or 9062-74
Company name Fränkische: „Multimedia-Rohr" for laying pre-assembled connection cable, Art.-No. 294.10.092

Please notice the maximum cable length of the cableand devices manufacturer.

■ gold-plated contacts

- jack on rear, angled $90^{\circ}$
- without spreader claws

■ with HDMI ${ }^{T M}$ double jack type A, supports $\mathrm{HDMI}^{T M}$ technology (V 1.3 with Deep Color)

## Audio outlets



Central plate for XLR round connectors D series

| white, glossy | $\mathbf{1 4 1 2 0 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 4 1 2 0 9}$ | 10 |
| polar white, matt/velvety | $\mathbf{1 4 1 2} \mathbf{1 9 0 9}$ | 10 |
| anthracite, matt | $\mathbf{1 4 1 2 \mathbf { 1 6 0 6 }}$ | 10 |
| aluminium, matt | $\mathbf{1 4 1 2 \mathbf { 1 4 0 4 }}$ | 10 |

Cut-out diameter 23,6 mm;
Distance between screws (horizontal/vertical) 19 / 24 mm

For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.

Attention!
Use only with intermediate ring for central plate from the corresponding range.

Circular plug-in connector:
Cannon
Deltron;
Farnell;
Hirose;
Monacor;
Neutrik;
RS Components
■ with supporting plate
■ speakon and jack connector
■ without spreader claws

Order no.
Packing
unit
Centre plate for loudspeaker socket outlet and miniature connector insert

| white, glossy, 1gang, 1 |
| :--- |
| knock out opening |

119602
0
polar white, glossy, 119609 10
1gang, 1 knock out opening

For miniature connector insert order no. 4505
For stereo loudspeaker socket outlet order no. 450501
For loudspeaker socket outlet High End order no. 450502
For BNC/TNC connector insert order no. 4577, 4579

| Centre plate for aerial socket 1-hole |  |  |
| :--- | :---: | :--- |
| white, glossy | $\mathbf{1 4 9 9} \mathbf{4 2}$ | 10 |
| polar white, glossy | $\mathbf{1 4 9 9} 49$ | 10 |



| Centre plate for aerial socket $\mathbf{2 -}$ - and 3-hole |  |  |
| :--- | :---: | ---: |
| white, glossy | $\mathbf{1 2 0 0} \mathbf{0 2}$ | 10 |
| polar white, glossy | $\mathbf{1 2 0 0} \mathbf{0 9}$ | 10 |

For aerial socket 2-hole single box order no. 4502 For aerial socket 2-hole throughpass socket order no. 4515
For aerial socket 3-hole single box order no. 4522 For aerial socket 3-hole throughpass socket order no. 4523, 4593

■ with knock out SAT input


Central plate for aerial socket 4-hole

| white, glossy | $\mathbf{1 4 8 4 0 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 4 8 4 0 9}$ | 10 |
| polar white, matt/velvety | $\mathbf{1 4 8 4 \mathbf { 1 9 } \mathbf { 0 9 }}$ | 10 |
| anthracite, matt | $\mathbf{1 4 8 4 \mathbf { 1 6 } \mathbf { 0 6 }}$ | 10 |
| brown | $\mathbf{1 4 8 4 \mathbf { 0 1 }}$ | 10 |
| aluminium, matt | $\mathbf{1 4 8 4 \mathbf { 1 4 } \mathbf { 0 4 }}$ | 10 |
| stainless steel, | $\mathbf{1 4 8 4 0 4}$ | 10 |
| lacquered |  |  |
| light bronze, lacquered | $\mathbf{1 4 8 4 \mathbf { 1 1 }}$ | 10 |

For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.

## Attention!

Use only with intermediate ring for central plate from the corresponding range.
For aerial socket 4-hole single box order no. 4594

Aerial sockets:
Ankaro;
Astro;
Axing;
Delta;
Schwaiger
$■$ with 2 additional SAT outputs (F-sockets)

Order no.
Packing

| 0 | Central plate for aerial socket 4-hole |  |  |
| :---: | :---: | :---: | :---: |
|  | white, glossy | 148302 | 10 |
|  | polar white, glossy | 148309 | 10 |
|  | polar white, matt/velvety | 14831909 | 10 |
|  | anthracite, matt | 14831606 | 10 |
|  | brown | 148301 | 10 |
|  | aluminium, matt | 14831404 | 10 |
|  | stainless steel, lacquered | 148304 | 10 |
|  | light bronze, lacquered | 148311 | 10 |

Attention!
Use only with intermediate ring for central plate from the corresponding range.

Aerial sockets:
Hirschmann
■ with 2 additional SAT outputs (F-sockets)

| Central plate for broadband modem box |  |  |
| :--- | :--- | :--- |
| white, glossy | $\mathbf{1 4 3 9} \mathbf{0 2}$ | 10 |
| polar white, glossy | $\mathbf{1 4 3 9} \mathbf{0 9}$ | 10 |
| polar white, matt/velvety | $\mathbf{1 4 3 9} \mathbf{1 9 0 9}$ | 10 |
| anthracite, matt | $\mathbf{1 4 3 9} \mathbf{1 6 0 6}$ | 10 |
| aluminium, matt | $\mathbf{1 4 3 9} \mathbf{1 4 0 4}$ | $\mathbf{1 4}$ |

Attention!
Use only with intermediate ring for central plate from the corresponding range.

Broadband modem socket:
Wisi
■ with additional multimedia output

## INTERMEDIATE RINGS

Adapter ring for centre plate $50 \times 50 \mathrm{~mm}$
white, glossy 11430210

| polar white, glossy | 114309 | 10 |
| :--- | :--- | :--- |

Attention!
Not suitable for Berker central plates.
For centre plate as per DIN 49075

- for other centre plates with external size $50 \times 50$ mm


For centre plate as per DIN 49075


Intermediate ring for central plate

| white, glossy | $\mathbf{1 1 0 9} \mathbf{0 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 1 0 9} \mathbf{0 9}$ | 10 |
|  |  |  |
|  |  |  |
| $\square$ labelling field latchable |  |  |
| $\square$ also suitable for $50 \times 50 \mathrm{~mm}$ centre plate with |  |  |
| square cut-out |  |  |

Order no.
Order no.

| Centre plate for PTT socket outlet |  |  |
| :--- | :--- | :--- |
| "Netherlands" |  |  |
| white, glossy | $\mathbf{6 1 1 0 3 6 0 2}$ | 10 |
| polar white, glossy | $\mathbf{6 1 1 0 3 6 0 9}$ | 10 |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
| socket outlets |  |  |



| Centre plate for RTT socket outlet „Belgium" |  |  |
| :--- | :---: | :---: |
| white, glossy | $\mathbf{6 7 1 1 0 3 0 2}$ | 10 |
| polar white, glossy | $\mathbf{6 7 1 1 0 3 0 9}$ | 10 |



| Central plate for FCC socket outlet |  |  |
| :--- | :---: | :--- |
| white, glossy | $\mathbf{1 4 6 8 0 2}$ | 10 |
| polar white, glossy | $\mathbf{1 4 6 8 0 9}$ | 10 |
| brown, glossy | $\mathbf{1 4 6 8 0 1}$ | 10 |
|  |  |  |

For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue

Attention!
Use only with intermediate ring for central plate from the corresponding range.
For FCC socket outlet order no. 4538, 4568
For FCC socket outlet shielded order no. 4554, 4586
FCC socket outlets:
AMP; Brand-Rex; BTR;
Rutenbeck; Telegärtner

- with $45^{\circ}$ oblique outlet
- for 1 gang socket outlet cat. 3 , cat. 5 e and cat. 6


| Central plate FCC/E-DAT design/Telekom <br> ISDN socket outlet |  |  |
| :--- | :--- | :--- |
| white, glossy | $\mathbf{1 4 6 9} \mathbf{0 2}$ | 10 |
| polar white, glossy | $\mathbf{1 4 6 9} \mathbf{0 9}$ | 10 |
| brown, glossy | $\mathbf{1 4 6 9} \mathbf{0 1}$ | 10 |

For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.

Attention!
Use only with intermediate ring for central plate from the corresponding range.
For FCC socket outlet order no. 4539, 4562, 4592
For FCC socket outlet shielded order no. 4555, 4587
ISDN socket outlets (Rutenbeck):
Telekom;
FCC socket outlets:
AMP; Brand-Rex; BTR;
CobiNet; Corning;
Dätwyler; EFB Electronic;
Elmat/Süveg (STL-Gruppe);
Komos; Leoni Kerpen;
Rutenbeck; Setec;
Telegärtner; Telena

- with $45^{\circ}$ oblique outlet
$■$ for 2 gang socket outlet cat. 3 , cat. 5 e and cat. 6

Order no.
Packing
unit

| Central plate for $\mathbf{3}$ MINI-COM modules |  |  |
| :--- | :--- | :--- |
| white, glossy | $\mathbf{1 4 2 7 \mathbf { 0 2 }}$ | 10 |
| polar white, glossy | $\mathbf{1 4 2 7 0 9}$ | 10 |
| polar white, matt/velvety | $\mathbf{1 4 2 7} \mathbf{1 9 0 9}$ | 10 |
| anthracite, matt | $\mathbf{1 4 2 7} \mathbf{1 6 0 6}$ | 10 |
| aluminium, matt | $\mathbf{1 4 2 7} \mathbf{1 4 0 4}$ | 10 |

For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.

## Attention!

Use only with intermediate ring for central plate from the corresponding range.
For mini jack order no. 1980, 1984, 1985
For cinch module set order no. 1989
For blank module order no. 1990
For video cinch module order no. 1992
For S-Video module order no. 1993
For VGA module order no. 1994

## Modules:

Panduit

- with supporting plate

■ for Mini-Com jacks cat.3, cat.5e, cat.6, cat. 6 10Gig

- for Mini-Com fibre-optic modules
- for Mini-Com BNC connector modules
$\square$ for Mini-Com 3.5 mm stereo connection/coupling modules
- for mini-com speaker wire/banana plug modules
- for Mini-Com F-plug coupling modules
- for Mini-Com Cinch connection/coupling modules
- for Mini-Com S-Video connection/coupling modules
- for Mini-Com D-Subminiature connectors 15 pole
- for Mini-Com dummy modules 1 gang
- with $30^{\circ}$ oblique outlet
- without spreader claws


Central plate for 1 or 2 single modules Reichle\&De-Massari

| white, glossy | $\mathbf{1 4 7 2 0 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 4 7 2} \mathbf{0 9}$ | 10 |
| polar white, matt/velvety | $\mathbf{1 4 7 2} \mathbf{1 9 0 9}$ | 10 |
| anthracite, matt | $\mathbf{1 4 7 2} \mathbf{1 6 0 6}$ | 10 |
| aluminium, matt | $\mathbf{1 4 7 2 1 4 0 4}$ | 10 |

For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.

## Attention!

Use only with intermediate ring for central plate from the corresponding range.

## Modules:

Reichle\&De-Massari
$\square$ with supporting plate
$\square$ for connecting modules RJ45 cat.5e and cat. 6

- for fibre-optic modules
- with $30^{\circ}$ oblique outlet
$\square$ without spreader claws



## Central plate for double modules

 Reichle\&De-Massari| white, glossy | $\mathbf{1 4 6 1 0 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 4 6 1 0 9}$ | 10 |
| polar white, matt/velvety | $\mathbf{1 4 6 1 \mathbf { 1 9 } 0 9}$ | 10 |

For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.

## Attention!

Use only with intermediate ring for central plate from the corresponding range.

Modules:<br>Diamond;<br>Reichle\&De-Massari<br>- with supporting plate<br>- for connecting modules RJ45 cat.5e and cat. 6<br>- for fibre-optic modules<br>- with $30^{\circ}$ oblique outlet<br>- without spreader claws



Central plate for AMP modular jacks

| white, glossy | $\mathbf{1 4 6 3 0 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 4 6 3 0 9}$ | 10 |
| polar white, matt/velvety | $\mathbf{1 4 6 3 1 9 0 9}$ | 10 |
| anthracite, matt | $\mathbf{1 4 6 3 \mathbf { 1 6 0 6 }}$ | 10 |
| aluminium, matt | $\mathbf{1 4 6 3 \mathbf { 1 4 0 4 }}$ | 10 |

Indexing dimension ( $\mathrm{W} \times \mathrm{H}$ ) approx. $14,7 \times 20,7 \mathrm{~mm}$
Shielded versions touch each other.
For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.

## Attention!

Use only with intermediate ring for central plate from the corresponding range.

MT-RJ jack:
AMP;
Intracom;
Telena;
Modular jacks:
CobiNet;
EFB Electronic;
Schumann;
Standard 110 Connect jack:
AMP;
SL series toolless jack:
AMP;
SL series 110 Connect Jack:
AMP;
SL series toolless jack with dust protection:
AMP
■ with supporting plate
■ for AMP modular jacks series 110 Connect cat.3, cat.5, cat.5e and cat. 6

- for AMP fibre-optic couplings MT-RJ jacks

■ 2gang, with $30^{\circ}$ oblique outlet

- without spreader claws

Order no.
Packing
Order no.
Packing
unit


| Central plate for Krone modular jacks |  |  |
| :---: | :---: | :---: |
| white, glossy | 146402 | 10 |
| polar white, glossy | 146409 | 10 |
| polar white, matt/velvety | 14641909 | 10 |
| anthracite, matt | 14641606 | 10 |
| aluminium, matt | 14641404 | 10 |

For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.

Attention!
Use only with intermediate ring for central plate from the corresponding range.

Modular jacks:
3M;
Asyco;
Dätwyler;
Erni;
Harting;
Hubbell;
ICS;
Krone;
Leoni Kerpen;
Nexans;
Setec;
Telegärtner;
Thomas \& Betts

- with supporting plate

■ for Krone modular jacks cat.5, cat.5e and cat. 6
■ for Krone fibre-optic couplings MT-RJ jacks
■ for 3M fibre-optic couplings Volition

- 2 gang, with $30^{\circ}$ oblique outlet
$\square$ without spreader claws
Centre plate with dust protection slider and labelling field
white, glossy 11700210
polar white, glossy 117009
Labelling field height arranged for 9 mm P-touch strips.
For supporting plate 1gang order no. 4540 ..
- for supporting plates with coloured mount 1gang



|  | Centre plate for AMP-ACO with labelling field |  |  |
| :---: | :---: | :---: | :---: |
|  | white, glossy | 118002 | 10 |
|  | polar white, glossy | 118009 | 10 |
|  | For detailed information on relevant articles of the listed manufacturers please see Berker Online Catalogue. |  |  |
|  | Labelling field height arranged for 9 mm -touch strips. |  |  |
|  | ACO and CO Plus inserts: <br> AMP, order no. 0-1394581-1, 2-1394581-1; <br> Anixter; <br> Dr. Ing. Sieger; <br> Schumann; <br> Telena <br> - cat. 5 , cat. 6 and cat. 7 <br> - centre plate plug-in fixing |  |  |
|  | Central plate for AMP-ACO |  |  |
|  | white, glossy | 149402 | 10 |
|  | polar white, glossy | 149409 | 10 |
|  | polar white, matt/velvety | 14941909 | 10 |
|  | anthracite, matt | 14941606 | 10 |
|  | aluminium, matt | 14941404 | 10 |

For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.

Attention!
Use only with intermediate ring for central plate from
the corresponding range.
Labelling field not usable

ACO and CO Plus inserts:
AMP, order no. 0-1394580-1, 2-1394580-1,
0-0336627-1, 2-0336627-1, 0-0336627-3
■ cat.5, cat. 6 and cat. 7

- central plates plug-in fixing


| Central plate for AMP-ACO with labelling field |  |  |
| :--- | :---: | :---: |
| white, glossy | $\mathbf{1 4 9 5 0 2}$ | 10 |
| polar white, glossy | $\mathbf{1 4 9 5 0 9}$ | 10 |
| polar white, matt/velvety | $\mathbf{1 4 9 5} \mathbf{1 9} \mathbf{0 9}$ | 10 |
| anthracite, matt | $\mathbf{1 4 9 5} \mathbf{1 6 0 6}$ | 10 |
| aluminium, matt | $\mathbf{1 4 9 5} \mathbf{1 4 0 4}$ | 10 |

For detailed information on relevant articles of the listed manufacturers please see Berker Online Catalogue.

Labelling field height arranged for 6 mm P-touch strips.

Attention!
Use only with intermediate ring for central plate from the corresponding range.

ACO and CO Plus inserts:
AMP, order no. 0-0336627-1, 2-0336627-1,
0-0336627-3
■ cat. 5 , cat. 6 and cat. 7

Order no.
Packing
Order no.
Packing
unit


Central plate for fibre-optic couplings Simplex ST

| white, glossy | $\mathbf{1 4 9 2 0 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 4 9 2 0 9}$ | 10 |
| polar white, matt/velvety | $\mathbf{1 4 9 2 1 9 0 9}$ | 10 |

For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.

## Attention!

Use only with intermediate ring for central plate from the corresponding range.

Fibre-optic couplings:
Ackermann;
AMP;
Brand-Rex;
BTR;
CobiNet;
Corning;
Diamond;
Drahtex;
Huber+Suhner;
Quante;
Telegärtner

- with supporting plate
- with $30^{\circ}$ oblique outlet
- for 2 fibre-optic couplings
- without spreader claws


Central plate for fibre-optic couplings
Duplex SC

| white, glossy | $\mathbf{1 4 8 0} \mathbf{0 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 4 8 0} 09$ | 10 |

polar white, matt/velvety 1480190910
For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.

Attention!
Use only with intermediate ring for central plate from the corresponding range.

Fibre-optic couplings:
Ackermann;
AMP;
Brand-Rex; ■ with supporting plate
BTR;
CobiNet;
Corning;
Diamond;
Drahtex;
FiberCraft;
Huber+Suhner;
Krone;
Quante;
Telegärtner

- with supporting plate
- with $30^{\circ}$ oblique outlet
- 1 knock out opening
- for 1 or 2 fibre-optic couplings
- without spreader claws

Order no.
Order no.
Packing
unit


| Central plate for signalling and control device Ø 22.5 mm |  |  |
| :---: | :---: | :---: |
| white, glossy | 143202 | 10 |
| polar white, glossy | 143209 | 10 |
| yellow, glossy | 143207 | 10 |
| polar white, matt/velvety | 14321909 | 10 |
| anthracite, matt | 14321606 | 10 |
| aluminium, matt | 14321404 | 10 |
| stainless steel, lacquered | 143204 | 10 |

For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.

Attention!
Use only with intermediate ring for central plate from the corresponding range.

Signalling and command units:
Kraus-Naimer;
Lumitas;
Schlegel;
Overvoltage protection devices:
Dehn, order no. NM DK 280;
OBO-Bettermann, order no. KNS/IS-D
■ with supporting plate
■ with cut-out dia. 22.5 mm

- without spreader claws


## HOSPITAL INSTALLATION



Central plate for double pole socket outlet for floating output

| white, glossy | $\mathbf{1 4 0 3 0 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 4 0 3 0 9}$ | 10 |
| polar white, matt/velvety | $\mathbf{1 4 0 3 \mathbf { 1 9 0 9 }}$ | 10 |
| anthracite, matt | $\mathbf{1 4 0 3 \mathbf { 1 6 0 6 }}$ | 10 |
| aluminium, matt | $\mathbf{1 4 0 3 \mathbf { 1 4 0 4 }}$ | 10 |

Attention!
Use only with intermediate ring for central plate from the corresponding range.
For double pole socket outlet for floating output order no. 1061

For double pole socket outlet according to DIN 42801
■ with imprint

Order no.
Packing
unit

| Central plate for 6pole socket outlet |  |  |
| :--- | :--- | :--- |
| white, glossy | $\mathbf{1 4 7 4} \mathbf{0 2}$ |  |
| polar white, glossy | $\mathbf{1 4 7 4 0 9}$ | 10 |
| polar white, matt/velvety | $\mathbf{1 4 7 4} \mathbf{1 9 0 9}$ | 10 |
| anthracite, matt | $\mathbf{1 4 7 4} \mathbf{1 6 0 6}$ | 10 |
| aluminium, matt | $\mathbf{1 4 7 4 \mathbf { 1 4 0 4 }}$ | 10 |
| stainless steel, | $\mathbf{1 4 7 4 0 4}$ | 10 |

lacquered

Attention!
Use only with intermediate ring for central plate from the corresponding range.

Nurse call system:
Ackermann, clino opt 99, order no. 71008C3;
Nurse call systems:
Ackermann, clino opt 90, clino phon 95,
order no. 71008C;
Siedle, order no. AD 306-0;
6pole socket outlets:
Hirschmann, Medu 600, Medu 600 GSK

## Messrs. Ackermann

Centre plate for databus termination splitter/

| empty unit |
| :--- |
| polar white, glossy |$\quad 120449$


| $\square$ | Centre plate for databus connection unit <br> with plug-in opening <br> polar white, glossy | 129849 |
| :--- | :--- | :--- |$\quad 10$



Centre plate for plug-and-socket connector
polar white, glossy 130549
10

Nurse call system:
Ackermann, clino opt 99, order no. 74189A
$\square$ a-coded for dropping plug-and-socket connector
■ centre plate plug-in fixing


Centre plate with 2 plug-in openings and imprint
polar white, glossy
124449
10

Nurse call system:
Ackermann, clino opt 99, order no. 73075C, 73020G,
73021G, 73075D
■ for call unit with 2 diagnostic plug-in contacts

- centre plate plug-in fixing

Order no.
Packing

|  | Centre plate with red call push-button at top and a plug-in opening polar white, glossy 121749 |
| :---: | :---: |
|  | Nurse call system: |
|  | Ackermann, clino opt 99, order no. 73071E, 73071E2, 73075A, 73073E |
|  | ■ for call push-button with plug-in contact |
|  | for call module with call push-button and monitored auxiliary plug-in contact |
|  | - button with lens |
|  | - centre plate plug-in fixing |



Centre plate with red call button and 2 plug-in openings
polar white, glossy 121849

Nurse call system:
Ackermann, clino opt 99, order no. 73071D,
73071D2, 73075B, 73073D

- for call push-button with diagnostic and auxiliary plug-in contact
- for call module with call push-button and plug-in contacts
button with lens
- with imprint
centre plate plug-in fixing


Centre plate with red call push-button at top polar white, glossy 121649

Nurse call system:
Ackermann, clino opt 99, order no. 73071F, 73071F2, 73073F
$\square$ for call module with call push-button

- button with lens
- centre plate plug-in fixing


Centre plate with red call push-button at bottom
polar white, glossy 121949

Nurse call system:
Ackermann, clino opt 99, order no. 73022A, 73022A2
$\square$ for call push-button
■ button with lens

- centre plate plug-in fixing


Order no.
Order no.


Centre plate with yellow shut-off button
polar white, glossy 12524910

Nurse call system:
Ackermann, clino opt 99, order no. 73642D

- for shut-off push-button
- button with lens
- centre plate plug-in fixing



## Centre plate for call unit

 with blue doctor call buttonpolar white, glossy 122349

Nurse call system:
Ackermann, clino opt 99, order no. 73022A, 73022A2

- for call push-button

■ button with lens
$\square$ with imprint
■ centre plate plug-in fixing


Centre plate with acknowledge button white
polar white, glossy 130849
10

Nurse call system:
Ackermann, clino opt 99, order no. 73640J
■ for office unit
$\square$ button with lens
■ with imprint „SU-AUS WARTEN"
■ centre plate plug-in fixing


## Centre plate with red call button and green shut-off button <br> polar white, glossy 124949

Nurse call system:
Ackermann, clino opt 99, order no. 73642B2
■ for call push-button and shut-off push-button

- buttons with lens

■ centre plate plug-in fixing

## Centre plate with green <br> and yellow shut-off button <br> polar white, glossy 125349

Nurse call system:
Ackermann, clino opt 99, order no. 73642E
■ for shut-off push-button

- buttons with lens

■ centre plate plug-in fixing


Centre plate with red lens for pullcord switch and pullcord push-button white, glossy 11490210
polar white, glossy 11490910

For pullcord push-button order no. 395619 For pullcord switch order no. 3962, 3966, 613966

Centre plate for pullcord push-button with lens polar white, glossy 123349

10

Nurse call systems:
Ackermann, clino opt 90, 99 / clino phon 95, order no. 70045A3, 70046A3, 70046A

- for pullcord push-button with pullcord and knob
- centre plate plug-in fixing


Centre plate for radio programme system with small sound system polar white, glossy 130049

Nurse call systems:
Ackermann, clino opt 90, 99 / clino phon 95, order no. 73120C, 73120 H

- for earpiece and volume control
- with imprinted symbol curve
- centre plate plug-in fixing

Centre plate for radio programme selector switch
polar white, glossy 130149

Nurse call systems:
Ackermann, clino opt 90, 99 / clino phon 95, order no. 73120A

- with imprint „0-1-2-3-4-5"
- centre plate plug-in fixing

Order no.
Packing unit

## Messrs. Total Walther (Zettler)

Centre plate for 15 pole socket outlet
white, glossy $128822 \quad 10$
polar white, glossy 12882910

Nurse call systems:
Total Walther, Zettler Medicall 800,
order no. 125.891xS, 125.850xS

- for pear push-button, diagnostic units etc.
- centre plate plug-in fixing


| Centre plate for call push-button/shut-off <br> push-button with <br> 15pole socket outlet |  |  |
| :--- | :---: | ---: |
| white, glossy | $\mathbf{1 2 8 8} 32$ | 10 |
| polar white, glossy | $\mathbf{1 2 8 8} 39$ | 10 |

Nurse call systems:
Total Walther, Zettler Medicall 800, order no. 125.840xS, 125.841xS, 125.842xS, 125.843xS

- for pear push-button, diagnostic units etc.
- centre plate plug-in fixing


Centre plate for call/service/cancel/doctor call push-button with 15pole socket outlet
white, glossy
128842
10
polar white, glossy
128849
10

Nurse call systems:
Total Walther, Zettler Medicall 800,
order no. 125.830xS, 125.831xS, 125.832xS

- for pear push-button, diagnostic units etc.
- centre plate plug-in fixing

| Centre plate for presence push-butto/cancel <br> push-button/personnel call push-button call/ <br> service call and doctor call push-button |  |  |
| :--- | :--- | :--- |
| white, glossy | $\mathbf{1 2 8 8} 02$ | 10 |
| polar white, glossy | $\mathbf{1 2 8 8} \mathbf{0 9}$ | 10 |

Nurse call systems:
Total Walther, Zettler Medicall 800, order no.
125.810xS, 125.811xS, 125.812xS, 125.813xS, $125.814 x \mathrm{x}, 125.815 \mathrm{xS}, 125.816 \mathrm{xS}, 125.892 x \mathrm{x}$, 125.893xS

- centre plate plug-in fixing

| Centre plate for presence push-button, <br> call/presence push-button call shut-off <br> push-button etc. <br> white, glossy | $\mathbf{1 2 8 8} \mathbf{1 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 2 8 8} \mathbf{1 9}$ | 10 |

## Nurse call systems:

Total Walther, Zettler Medicall 800, order no. $125.892 x S$, $125.893 x \mathrm{x}$, $125.820 \times \mathrm{x}$, $125.821 \times \mathrm{x}$, $125.822 \times \mathrm{x}, 125.823 \times \mathrm{x}, 125.824 \times \mathrm{x}, 125.825 \times \mathrm{x}$, 125.826xS, 125.827xS, 125.891xS

- centre plate plug-in fixing

Order no.
Packing
unit

|  | Centre plate for pneumatic call switch <br> with quiet lamp <br> white, glossy <br> polar white, glossy | 128852 |
| :--- | :--- | :--- |
|  | 128859 | 10 |
|  |  |  |
|  | Nurse call systems: <br> Total Walther, Zettler Medicall 800, <br> order no. 125.860xS, 125.861xS <br> $■ ~ c e n t r e ~ p l a t e ~ p l u g-i n ~ f i x i n g ~$ |  |

## Centre plate for buzzer

| white, glossy | $\mathbf{1 2 8 8} \mathbf{6 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 2 8 8} \mathbf{6 9}$ | 10 |

Nurse call systems:
Total Walther, Zettler Medicall 800 IP, order no. 125.800xS
■ centre plate plug-in fixing

## Berker S. 1

## Standard range, <br> flush-mounted system

Pure, timeless, functional - the simple form of the S .1 is what makes this range a modern classic. Winner of the iF-Award 2000 and the Good Design Award 2001, the S. 1 continues to impress with superior design.

- Modular concept, ergonomic design and square shape guarantee ease of handling
- Clean form harmonises with extremely diverse surroundings and is suitable for many applications
- Reduced stockholding due to use of rockers and centre inserts from the S.1, B.1, B.3, B. 7 Glas design lines
- Combination frames allow you to combine up to 5 devices vertically or horizontally
- Available surfaces: matt in polar white, glossy in white and polar white



| Frames | 26-28 |
| :--- | :---: |
| Frames with large cut-out | 28 |
| Surface-mounted housings | 29 |
| Socket outlets | 29 |
| Rotary dimmers | 29 |

Order no.

|  |  | Order no. | Packing unit |
| :---: | :---: | :---: | :---: |
| FRAMES |  |  |  |
| 1 on page T67 | Frame <br> white, glossy, 1gang white, glossy, 2gang white, glossy, 3gang white, glossy, 4gang white, glossy, 5gang <br> for vertical and horizo | $\begin{aligned} & 10118982 \\ & 10128982 \\ & 10138982 \\ & 10148982 \\ & 10158982 \end{aligned}$ <br> ntal mounting | $\begin{array}{r} 10 \\ 10 \\ 10 \\ 2 \\ 2 \end{array}$ |
| 1 on page T67 | Frame <br> polar white, glossy, 1gang <br> polar white, glossy, 2gang | $\begin{array}{r} 10118989 \\ 10128989 \end{array}$ | 10 10 |
|  | polar white, glossy, 3gang | 10138989 | 10 |
|  | polar white, glossy, 4gang | 10148989 | 2 |
|  | polar white, glossy, 5gang | 10158989 | 2 |
|  | polar white, matt, 1gang | 10119909 | 10 |
|  | polar white, matt, 2gang | 10129909 | 10 |
|  | polar white, matt, 3gang | 10139909 | 10 |
|  | polar white, matt, 4gang | 10149909 | 10 |
|  | polar white, matt, 5gang | 10159909 | 2 |
| ■ for vertical and horizontal mounting |  |  |  |
| 1 on page T67 | Frame <br> red, glossy, 1gang red, glossy, 2gang red, glossy, 3gang red, glossy, 4gang red, glossy, 5gang | 10118962 <br> 10128962 <br> 10138962 <br> 10148962 <br> 10158962 | 10 2 2 2 2 |
|  | ■ for vertical and horizontal mounting <br> ■ for emphasising special switches, socket outlets, etc. |  |  |
|  | Contrast frame 1gang <br> anthracite, matt 10119945 <br> 10 <br> More versions available upon request! |  |  |
| 1 on page T67 | Barrier-free building based on DIN 18025 |  |  |

Order no.
Packing
unit

|  | Frame with labelling field <br> white, glossy, 1gang <br> white, glossy, 2gang <br> vertical <br> white, glossy, 3gang <br> vertical <br> white, glossy, 2gang <br> horizontal <br> white, glossy, 3gang <br> horizontal |  |
| :--- | :--- | :--- |



Frame with labelling field

| polar white, glossy, | 10118919 | 10 |
| :--- | :--- | :--- |
| 1gang |  |  |
| polar white, glossy, <br> 2gang vertical | 10128919 | 10 |

polar white, glossy, $10138919 \quad 10$

3gang vertical
polar white, glossy, 1022891910
2gang horizontal
polar white, glossy, 1023891910

3gang horizontal
polar white, matt, 1gang 1011991910
polar white, matt, 2gang 1012991910
vertical
polar white, matt, 3gang 1013991910
vertical
polar white, matt, 2gang 1022991910
horizontal
polar white, matt, 3gang 10239919 10
horizontal

Labelling field height arranged for 6 mm P-touch strips.

## FRAME WITH LARGE CUT-OUT

Frame with large cut-out
white, glossy 13098982
Not suitable for surface-mounted housing.
For push-button 4gang order no. 75164380
I on page T67 For push-button 4gang comfort order no. 75164780 For light scene push-button 8gang order no. 75168880
For push-button 3gang with RTR order no. 75663780
For push-button 5gang with RTR order no. 75665780

- for vertical mounting

Order no.
Packing
unit

| Frame with large cut-out |  |  |
| :--- | :--- | :--- |
| polar white, glossy | 13098989 | 10 |
| polar white, matt | $1309 \mathbf{9 9 0 9}$ | 10 |
|  |  |  |
| Not suitable for surface-mounted housing. |  |  |

I on page T67 For push-button 4 gang order no. 75164380 For push-button 4gang comfort order no. 75164780 For light scene push-button 8gang order no. 75168880
For push-button 3gang with RTR order no. 75663780
For push-button 5gang with RTR order no. 75665780

■ for vertical mounting

## SURFACE-MOUNTED HOUSINGS



Surface-mounted housing 1gang

| white, glossy | $\mathbf{1 0 4 1} \mathbf{8 9} \mathbf{8 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 0 4 1 8 9 8 9}$ | 10 |
| polar white, matt | $\mathbf{1 0 4 1} 99 \mathbf{0 9}$ | 10 |

Installation depth 37 mm
For suitable tube-entries and replacement for cable and duct entries refer to the dry surface-mounted range.

Flush-mounted devices can be used with the surfacemounted housings for surface-mounted installation.

■ with cable and duct entry

- entry at top and bottom possible

■ suitable for mounting on flammable base surface


## Surface-mounted housing 2gang

| white, glossy | $\mathbf{1 0 4 2} \mathbf{8 9} \mathbf{8 2}$ | 5 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 0 4 2} \mathbf{8 9} \mathbf{8 9}$ | 5 |
| polar white, matt | $\mathbf{1 0 4 2 9 9 0 9}$ | 5 |

Installation depth 37 mm
For suitable tube-entries and replacement for cable and duct entries refer to the dry surface-mounted range.

Flush-mounted devices can be used with the surfacemounted housings for surface-mounted installation.
$\square$ with cable and duct entry

- entry at top, bottom and at each side in the middle possible
- for vertical and horizontal mounting

■ suitable for mounting on flammable base surface

Order no.

| Surface-mounted housing 3gang |  |  |
| :--- | ---: | ---: |
| white, glossy | 1043 89 82 | 5 |
| polar white, glossy | $\mathbf{1 0 4 3 8 9 8 9}$ | 5 |
| polar white, matt | $\mathbf{1 0 4 3} 99 \mathbf{0 9}$ | 5 |
| Installation depth 37 mm |  |  |
|  |  |  |
| For suitable tube-entries and replacement for cable |  |  |
| and duct entries refer to the dry surface-mounted |  |  |
| range. |  |  |

Flush-mounted devices can be used with the surfacemounted housings for surface-mounted installation.

- with cable and duct entry

■ entry at top, bottom and at each side in the middle possible

- for vertical and horizontal mounting

■ suitable for mounting on flammable base surface

## SOCKET OUTLETS

SCHUKO-socket outlets


## Combination switch/socket outlet



SCHUKO socket outlet with rocker switch and cover plate

| white, glossy | 6143568942 | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{6 1 4 3 5 6 8 9 4 9}$ | 10 |
| polar white, matt | $\mathbf{6 1 4 3 5 6 1 9 4 9}$ | 10 |

16 A 250 V
Switching current 10 A

For fitting in standard wall boxes according to DIN 49073-1
Connection terminals IEC 60884-1

- for vertical mounting

■ with change-over switch

- without spreader claws
- with screw terminals

Order no.
Order no.
Packing


| SCHUKO socket outlet with rockers switch <br> and cover plate <br> white, glossy | $\mathbf{6 1 4 3 5 5 8 9 4 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{6 1 4 3 5 5 8 9 4 9}$ | 10 |
| polar white, matt | $\mathbf{6 1 4 3 5 5 1 9 4 9}$ | 10 |

16A, 250 V 6143551949

16 A, 250 V~
Switching current 10 A

For fitting in standard wall boxes according to
DIN 49073-1
Connection terminals IEC 60884-1
■ for vertical mounting

- with series switch

■ without spreader claws
■ with screw terminals
SCHUKO-socket outlets


I on page T6

Double SCHUKO socket outlet with cover plate
white, glossy
polar white, glossy polar white, matt white, glossy, without spreader claws
polar white, glossy, 614754898910
without spreader claws
polar white, matt, without 614754990910
spreader claws
white, glossy, enhanced 4729898210
contact protection
IEC 60884-1
polar white, glossy, 4729898910
enhanced contact
protection IEC 60884-1
polar white, matt, 47299909
enhanced contact
protection IEC 60884-1
$16 \mathrm{~A}, 250 \mathrm{~V} \sim$
Assembling height 22 mm
61475489 82, 6147548989 and 6147549909 for the Netherlands!

For fitting in 1gang wall boxes according to
DIN 49073-1
Connection terminals IEC 60884-1
■ with plug-in terminals


Double SCHUKO socket outlet flat with cover plate
white, glossy 614730898210
polar white, glossy 614730898910
polar white, matt
6147309909
$16 \mathrm{~A}, 250 \mathrm{~V} \sim$
Suitable for Attema (UK40 and PVK40) and Haf (H150) wall boxes.

Connection terminals IEC 60884-1
■ flat design for Attema and Haf wall boxes
$\square$ without spreader claws
■ with plug-in terminals

SCHUKO-socket outlets for cable ducts
SCHUKO socket outlet combination 2gang with frame

| white, glossy | $\mathbf{4 7 2 0} \mathbf{8 9} \mathbf{8 2}$ | 5 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{4 7 2 0} \mathbf{8 9} 89$ | 5 |
| polar white, matt | $\mathbf{4 7 2 0} 99 \mathbf{0 9}$ | 5 |

I on page T6
16 A, 250 V~
For installation in cable duct mounting boxes and in standard commercially available 2gang hollow wall boxes, also in 2gang flush-mounted boxes.

Connection terminals IEC 60884-1
■ without spreader claws
■ $2 \times 1$ gang, wired-through

- with plug-in terminals

3gang SCHUKO socket outlet with cover plate
polar white, matt 476619095
16 A, 250 V~
Pre-assembled cables approx. 1 m ;
Conductor cross-section $2,5 \mathrm{~mm}^{2}$;
Installation time approx. 2 min .
For installation in cable duct mounting boxes and in standard commercially available 2gang hollow wall boxes, also in 2gang flush-mounted boxes.

Connection terminals IEC 60884-1
■ without mounting box

- common base, connected-through

■ through-wiring possible

- without spreader claws

■ with plug-in terminals
Combination switch/socket outlet
Socket outlet without earth contact with rocker switch and cover plate white, glossy 6143668982 polar white, glossy $\quad 6143668989$

16 A, 250 V~
Switching current 10 A ;
Mirror depth 6 mm

For fitting in standard wall boxes according to DIN 49073-1
Connection terminals IEC 60884-1
■ socket outlet 2pole

- for vertical mounting
- with change-over switch
- without spreader claws

■ with screw terminals

Order no.
Packing
Order no.
unit


I on page T9

Rotary dimmer with cover plate and setting knob S. 1
white, glossy 281989821

| polar white, glossy | 28198989 | 1 |
| :--- | :--- | :--- |
| polar white matt | $\mathbf{2 8 1 9} 9909$ | 1 |

polar white, matt 28199909
230 V~, 50 Hz
230 V incandescent and halogen lamps 60-400 W; LV power boosters built-in max. 10;
Axial dimension diameter 4 mm

Cover plate order no. 1130 ..
Centre plate order no. 1134 .., 1135 .., 1137 ..

```
- with rotary on/off switch
■ bulb-preserving soft startup
■ short-circuit and overload proof (fine-wire fuse)
\(\square\) phase cut-on
- with screw terminals
```


## ROTARY DIMMERS

Cover plate with setting knob for rotary dimmer

| white, glossy | $\mathbf{1 1 3 0 \mathbf { 8 9 } \mathbf { 8 2 }}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 1 3 0} \mathbf{8 9} \mathbf{8 9}$ | 10 |
| polar white, matt | $\mathbf{1 1 3 0} 99 \mathbf{0 9}$ | 10 |

Axial dimension diameter 4 mm

For rotary dimmer order no. 2819 .., 2830 10, 2860 10, 2875, 2885
For universal rotary dimmer order no. 286110
For universal rotary dimmer extension unit order no. 286210
For rotary dimmer LV order no. 2866 10, 2873
For Tronic rotary dimmer order no. 2867 10, 2874
For rotary potentiometer 1-10 V order no. 289110
For push-button rotary potentiometer 1-10 V order no. 289610
For rotary potentiometer DALI order no. 2897

## Berker B. 1

## Surface range, flush-mounted system

The inspired symbiosis of form and colour of the Berker B. 1 allows you to create the perfect atmosphere in your rooms. The soft colours and first-rate technology are everything you could wish for.

- Reduced stockholding due to use of matt rockers and centre inserts from the S.1, B.1, B.3, B. 7 Glas design lines
- Combination frames allow you to combine up to 5 devices vertically or horizontally
- Available surfaces: matt in polar white, anthracite and aluminium lacquered


| Frames | 26-28 |
| :--- | :---: |
| Frames with large cut-out | 28 |
| Surface-mounted housings | 29 |
| Socket outlets | 29 |

Order no.

|  |  | Order no. | Packing unit |
| :---: | :---: | :---: | :---: |
| FRAMES |  |  |  |
| 1 on page T67 | Frame <br> polar white, matt, 1gang polar white, matt, 2gang vertical <br> polar white, matt, 3gang vertical | 10111909 10121909 10131909 | 10 10 10 |
|  | polar white, matt, 4gang vertical | 10141909 | 2 |
|  | polar white, matt, 5 gang vertical | 10151909 | 2 |
|  | polar white, matt, 2gang horizontal | 10221909 | 10 |
|  | polar white, matt, 3gang horizontal | 10231909 | 10 |
|  | polar white, matt, 4gang horizontal | 10241909 | 2 |
|  | polar white, matt, 5gang horizontal | 10251909 | 2 |
| 1 on page T67 | Frame |  |  |
|  | anthracite, matt, 1gang | 10111606 | 10 |
|  | anthracite, matt, 2gang vertical | 10121606 | 10 |
|  | anthracite, matt, 3gang | 10131606 | 10 |
|  | vertical <br> anthracite, matt, 4gang vertical | 10141606 | 2 |
|  | anthracite, matt, 5gang vertical | 10151606 | 2 |
|  | anthracite, matt, 2gang horizontal | 10221606 | 10 |
|  | anthracite, matt, 3gang horizontal | 10231606 | 10 |
|  | anthracite, matt, 4gang horizontal | 10241606 | 2 |
|  | anthracite, matt, 5gang horizontal | 10251606 | 2 |
| 1 on page T 67 | Frame |  |  |
|  | aluminium, matt, 1gang | 10111404 | 10 |
|  | aluminium, matt, 2gang vertical | 10121404 | 10 |
|  | aluminium, matt, 3gang vertical | 10131404 | 10 |
|  | aluminium, matt, 4gang vertical | 10141404 | 2 |
|  | aluminium, matt, 5gang vertical | 10151404 | 2 |
|  | aluminium, matt, 2gang horizontal | 10221404 | 10 |
|  | aluminium, matt, 3gang horizontal | 10231404 | 10 |
|  | aluminium, matt, 4gang horizontal | 10241404 | 2 |
|  | aluminium, matt, 5gang horizontal | 10251404 | 2 |

Order no.

## FRAME WITH LARGE CUT-OUT



Frame with large cut-out
polar white, matt 13091909 1

Not suitable for surface-mounted housing.
For push-button 4gang order no. 75164380
I on page T67 For push-button 4gang comfort order no. 75164780
For light scene push-button 8gang order no. 75168880
For push-button 3gang with RTR order no. 75663780
For push-button 5gang with RTR order no. 75665780

■ for vertical mounting

|  | Frame with large cut-out <br> anthracite, matt $\quad 13091606$ |
| :--- | :--- |
| Not suitable for surface-mounted housing. |  |$\quad 1$

Not suitable for surface-mounted housing.
For push-button 4gang order no. 75164385
For push-button 4gang comfort order no. 75164785 For light scene push-button 8gang order no. 75168885
For push-button 3gang with RTR order no. 75663785
For push-button 5gang with RTR order no. 75665785

■ for vertical mounting

## SURFACE-MOUNTED HOUSINGS



Surface-mounted housing 1gang

| polar white, matt | $\mathbf{1 0 4 1} 1909$ | 10 |
| :--- | :--- | :--- |
| anthracite, matt | $\mathbf{1 0 4 1} 16 \mathbf{0 6}$ | 10 |
| aluminium, matt | $\mathbf{1 0 4 1} 1404$ | 10 |

aluminium, matt 10411404
10
Installation depth 37 mm
For suitable tube-entries and replacement for cable and duct entries refer to the dry surface-mounted range.

Flush-mounted devices can be used with the surfacemounted housings for surface-mounted installation.

■ with cable and duct entry

- entry at top and bottom possible

■ suitable for mounting on flammable base surface

Order no.

| Surface-mounted housing 2gang |  |  |
| :--- | :---: | :--- |
| polar white, matt | $\mathbf{1 0 4 2} \mathbf{1 9 0 9}$ | 5 |
| anthracite, matt | $\mathbf{1 0 4 2} \mathbf{1 6 0 6}$ | 5 |
| aluminium, matt | $\mathbf{1 0 4 2 ~ 1 4 0 4}$ | 5 |

Installation depth 37 mm
For suitable tube-entries and replacement for cable and duct entries refer to the dry surface-mounted range.

With B. 3 also suitable for horizontal mounting!
Flush-mounted devices can be used with the surfacemounted housings for surface-mounted installation.

- with cable and duct entry
- entry at top, bottom and at each side in the middle possible
- for vertical mounting

■ suitable for mounting on flammable base surface

| Surface-mounted housing 3gang |  |  |
| :--- | :--- | :--- |
| polar white, matt | 1043 19 09 | 5 |
| anthracite, matt | $\mathbf{1 0 4 3} \mathbf{1 6 0 6}$ | 5 |
| aluminium, matt | $\mathbf{1 0 4 3 1 4 0 4}$ | 5 |
| Installation depth 37 mm |  |  |
|  |  |  |
| For suitable tube-entries and replacement for cable <br> and duct entries refer to the dry surface-mounted <br> range. |  |  |

With B. 3 also suitable for horizontal mounting!
Flush-mounted devices can be used with the surfacemounted housings for surface-mounted installation.
$■$ with cable and duct entry
$\square$ entry at top, bottom and at each side in the middle possible

- for vertical mounting

■ suitable for mounting on flammable base surface

## Surface-mounted housing 2gang



| polar white, matt | $\mathbf{1 0 5 2} 1909$ | 5 |
| :--- | :--- | :--- |
| anthracite, matt | $\mathbf{1 0 5 2} \mathbf{1 6 0 6}$ | 5 |
| aluminium, matt | $\mathbf{1 0 5 2} \mathbf{1 4 0 4}$ | 5 |

Installation depth 37 mm
For suitable tube-entries and replacement for cable and duct entries refer to the dry surface-mounted range.

## Not suitable for B.3!

Flush-mounted devices can be used with the surfacemounted housings for surface-mounted installation.

- with cable and duct entry
- entry at top, bottom and at each side in the middle possible
- for horizontal mounting
- suitable for mounting on flammable base surface

Order no.


## SOCKET OUTLETS

SCHUKO-socket outlets
Double SCHUKO socket outlet with frame

| polar white, matt | $\mathbf{4 7 5 4 1 9 0 9}$ | 10 |
| :--- | :--- | :--- |
| anthracite, matt | $\mathbf{4 7 5 4 1 6 0 6}$ | 10 |
| aluminium, matt | $\mathbf{4 7 5 4 1 4 0 4}$ | 10 |
| polar white, matt, <br> enhanced contact <br> protection IEC 60884-1 <br> anthracite, matt, <br> enhanced contact <br> protection IEC 60884-1 <br> aluminium, matt, <br> enhanced contact <br> protection IEC 60884-1 <br> 16 A, 250 V~ | $\mathbf{4 7 2 9 1 9 0 9}$ | 10 |
| Assembling height 22 mm |  |  |

For fitting in 1gang wall boxes according to
DIN 49073-1
Connection terminals IEC 60884-1
■ with plug-in terminals

## Socket outlets without earth contact



Double socket outlet without earth contact with frame

| polar white, matt | $\mathbf{6 1 6 7 5 4 1 9 0 9}$ | 10 |
| :--- | :--- | :--- |
| anthracite, matt | $\mathbf{6 1 6 7 5 4 1 6 0 6}$ | 10 |
| aluminium, matt | $\mathbf{6 1 6 7 5 4 1 4 0 4}$ | 10 |

,
6167541404
16 A, 250 V~
Mirror depth 5,8 mm

For fitting in standard wall boxes according to
DIN 49073-1
Connection terminals IEC 60884-1

- 2pole

■ without spreader claws

- with plug-in terminals


## Berker B. 3

## Surface range, flush-mounted system

The gentle gleam of the metal and the clear lines of the B. 3 in real aluminium are truly impressive. The pure brilliance of the design lends your room a timeless elegance.

- Incisive design with high-quality aluminium frame
- Integrates perfectly into any modern interior design style - whether in the home or office
- Reduced stockholding due to use of rockers and centre inserts from the S.1, B.1, B.3, B. 7 Glas design lines
- Combination frames allow you to combine up to 5 devices vertically or horizontally
- Available surface combinations: aluminium/anthracite - anthracite, matt and aluminium/polar white polar white, matt or glossy


Frames 26-28

Frames with large cut-out29

Order no.
Packing
unit


I on page T67

| Frame <br> aluminium/polar white, <br> 1gang <br> aluminium/polar white, <br> 2gang <br> aluminium/polar white, | $\mathbf{1 0 1 1 3 9 0 4}$ | 10 |
| :--- | :---: | :---: |
| 3gang <br> aluminium/polar white, | $\mathbf{1 0 1 3} 3904$ | 10 |
| 4gang <br> aluminium/polar white, | $\mathbf{1 0 1 5} 390404$ |  |
| 5gang <br> aluminium/polar white, <br> 1gang | $\mathbf{1 0 1 1} 39 \mathbf{1 4}$ | 2 |

- for vertical and horizontal mounting - metal, aluminum profile


1 on page 767

## Frame

aluminium/anthracite, 10113004
1gang
aluminium/anthracite,
2gang
aluminium/anthracite, 3gang
aluminium/anthracite,
4gang
aluminium/anthracite, 5 gang
aluminium/anthracite,
10113014

| 10113004 | 10 |
| :---: | :---: |
| 10123004 | 10 |
| 10133004 | 10 |
| 10143004 | 2 |
| 10153004 | 2 |
| 10113014 | 10 |

1gang
for vertical and horizontal mounting ■ metal, aluminum profile


1 on page T66

## Frame

gold, metal/polar white, 10113046
1gang
gold, metal/polar white, 1012304610
2gang
gold, metal/polar white, 10133046
3gang
gold, metal/polar white, 10143046
4gang
gold, metal/polar white, 10153046
5 gang

Order no.

## FRAME WITH LARGE CUT-OUT

|  | Frame with large cut-out |
| :---: | :---: |
|  | aluminium/polar white 13093904 |
|  | Not suitable for surface-mounted housing. |
|  | For push-button 4gang order no. 75164380 |
| 1 on page T67 | For push-button 4gang comfort order no. 75164780 |
|  | For light scene push-button 8gang order no. 75168880 |
|  | For push-button 3gang with RTR order |
|  | For push-button 5gang with RTR order |
|  | no. 75665780 |
|  | ■ for vertical mounting |



Frame with large cut-out
aluminium/anthracite 13093004 1

Not suitable for surface-mounted housing.
For push-button 4gang order no. 75164385
For push-button 4gang comfort order no. 75164785 For light scene push-button 8gang order no. 75168885
For push-button 3gang with RTR order no. 75663785
For push-button 5gang with RTR order no. 75665785

■ for vertical mounting

| Frame with large cut-out |  |  |
| :--- | :--- | :--- | :--- |
| gold, metal/polar white | $\mathbf{1 3 0 9} \mathbf{3 0} \mathbf{4 6}$ | 1 |

Not suitable for surface-mounted housing.
For push-button 4gang order no. 75164380
1 on page T66 For push-button 4gang comfort order no. 75164780
For light scene push-button 8gang order no. 75168880
For push-button 3gang with RTR order no. 75663780
For push-button 5gang with RTR order no. 75665780

■ for vertical mounting

## SURFACE-MOUNTED HOUSINGS



Surface-mounted housing 1gang
polar white, matt 1041190910
anthracite, matt 10411606

Installation depth 37 mm
For suitable tube-entries and replacement for cable and duct entries refer to the dry surface-mounted range.

Flush-mounted devices can be used with the surfacemounted housings for surface-mounted installation.

■ with cable and duct entry

- entry at top and bottom possible

■ suitable for mounting on flammable base surface

Order no.

Surface-mounted housing 2gang

| polar white, matt | $\mathbf{1 0 4 2} 1909$ | 5 |
| :--- | ---: | :--- |
| anthracite, matt | $\mathbf{1 0 4 2} \mathbf{1 6 0 6}$ | 5 |
| Installation depth 37 mm |  |  |

For suitable tube-entries and replacement for cable and duct entries refer to the dry surface-mounted range.

With B. 3 also suitable for horizontal mounting!
Flush-mounted devices can be used with the surfacemounted housings for surface-mounted installation.
$\square$ with cable and duct entry

- entry at top, bottom and at each side in the middle possible
■ for vertical mounting
■ suitable for mounting on flammable base surface
Surface-mounted housing 3gang
polar white, matt 104319095
anthracite, matt 10431606

Installation depth 37 mm
For suitable tube-entries and replacement for cable and duct entries refer to the dry surface-mounted range.

With B. 3 also suitable for horizontal mounting!
Flush-mounted devices can be used with the surfacemounted housings for surface-mounted installation.

- with cable and duct entry
- entry at top, bottom and at each side in the middle possible
- for vertical mounting

■ suitable for mounting on flammable base surface

# Berker B. 7 Glas 

## Surface range, flush-mounted system

The classic shape of the B. series, in combination with fine glass - with B. 7 Glas you can give your living spaces a truly special allure with a clean design that fits perfectly into the most diverse interior styles. See things clearly.

- Appealing design with high-quality glass frame
- Glass is a material that creates an exclusive look in interior design
- Reduced stockholding due to use of rockers and centre inserts from the S.1, B.1, B.3, B. 7 Glas design lines
- Combination frames allow you to combine up to 5 devices vertically or horizontally
- Available surface combinations: glass/polar white - polar white, matt or glossy, glass/black - anthracite, matt and glass/aluminium-aluminium, matt


Order no.
Packing
Order no.
Packing
unit

## FRAMES



I on page T67
Glass frame
polar white, 1gang
polar white, 2gang
10116909
10
polar white, 3gang
10126909
5
polar white, 4gang
polar white, 5gang
10136909
5

10146909
1

10156909

Not suitable for surface-mounted housing.
$\square$ for vertical and horizontal mounting

- toughened glass


1 on page T67
Glass frame

| black, 1gang | $\mathbf{1 0 1 1 \mathbf { 6 6 1 6 }}$ | 10 |
| :--- | ---: | ---: |
| black, 2gang | $\mathbf{1 0 1 2 \mathbf { 6 6 1 6 }}$ | 5 |
| black, 3gang | $\mathbf{1 0 1 3 \mathbf { 6 6 1 6 }}$ | 5 |
| black, 4gang | $\mathbf{1 0 1 4 \mathbf { 6 6 1 6 }}$ | 1 |
| black, 5gang | $\mathbf{1 0 1 5} \mathbf{6 6 1 6}$ | 1 |

Not suitable for surface-mounted housing.
for vertical and horizontal mounting
■ toughened glass


I on page T67

## Glass frame

aluminium, 1gang
10116414
10
aluminium, 2gang
aluminium, 3gang
aluminium, 4gang
10126414
aluminium, 5 gang
10136414
10146414
10156414


I on page T67

Glass frame with large cut-out black 13096616

Not suitable for surface-mounted housing.
For push-button 4gang order no. 75164385
For push-button 4gang comfort order no. 75164785
For light scene push-button 8gang order no. 75168885
For push-button 3gang with RTR order no. 75663785
For push-button 5gang with RTR order no. 75665785

- for vertical mounting

■ toughened glass

Glass frame with large cut-out aluminium 13096414 2

Not suitable for surface-mounted housing.
For push-button 4gang order no. 75164385
For push-button 4gang comfort order no. 75164785 For light scene push-button 8gang order no. 75168885
For push-button 3gang with RTR order no. 75663785
For push-button 5gang with RTR order no. 75665785

■ for vertical mounting
■ toughened glass

Not suitable for surface-mounted housing
$\square$ for vertical and horizontal mounting
■ toughened glass

## GLASS FRAME WITH LARGE CUT-OUT



Glass frame with large cut-out
polar white 13096909

Not suitable for surface-mounted housing
For push-button 4gang comfort order no. 751643 80, 1 on page 167

75164780
For light scene push-button 8gang order
no. 75168880
For push-button 3gang with RTR order
no. 75663780
For push-button 5gang with RTR order
no. 75665780

■ for vertical mounting

- toughened glass

2
2

## S.1/B.1/B.3/B. 7 Glas

## Rockers and centre inserts

The square design conceals a modular system structure. All rockers and centre inserts shown on the following pages are colour-matched and compatible with the frames of the Berker S.1, B.1, B. 3 and B. 7 Glas switch ranges. For you the advantages are twofold: a wide product range with minimal stockholding.

We recommend the following colour combinations (Frames - rockers/centre inserts):

Standard range S.1: white, glossy, polar white, matt/glossy.
Frames and other devices: from page 102
Surface range B.1: polar white, matt, anthracite, matt, aluminium, matt lacquered.
Frames and other devices: from page 108
Surface range B.3: aluminium/polar white - polar white, matt/glossy, aluminium/anthracite anthracite, matt. Frames and other devices: from page 112

Surface range B.7: glass/polar white - polar white, matt/glossyglass/black - anthracite, matt, glass/aluminium - aluminium, matt. Frames and other devices: from page 116


| Socket outlets | 122-128 | Berker Light Control | 135-139 |
| :---: | :---: | :---: | :---: |
| Covers switches/push-buttons | 128-132 | Thermostats | 139-140 |
| RCD Protection switch | 132 | Rollotec | 141-143 |
| Blank plates | 133 | Entertainment electronics | 144-145 |
| Pilot lamps | 133 | TV/Audio/Video | 145-147 |
| Intercom device | 133 | Intermediate rings | 148 |
| Timers | 134-135 | Data/Tele communications | 148-152 |
| Rotary dimmers | 135 | Signalling and command units | 152-153 |
| Speed controllers | 135 | Hospital installation | 153-156 |
| Universal series touch dimmers | 135 |  |  |

Order no.
unit
SOCKET OUTLETS
SCHUKO-socket outlets


I on page T6

| SCHUKO socket outlet |  |  |
| :---: | :---: | :---: |
| white, glossy | 47438982 | 10 |
| polar white, glossy | 47438989 | 10 |
| red, glossy | 47438912 | 10 |
| green, glossy | 47438913 | 10 |
| orange, glossy | 47438914 | 10 |
| polar white, matt | 47431909 | 10 |
| anthracite, matt | 47431606 | 10 |
| aluminium, matt | 47431404 | 10 |
| red, matt | 47431912 | 10 |
| green, matt | 47431913 | 10 |
| orange, matt | 47431914 | 10 |
| white, glossy, enhanced contact protection | 47238982 | 10 |

IEC 60884-1
polar white, glossy, 4723898910
enhanced contact
protection IEC 60884-1
orange, glossy, 47238914
enhanced contact
protection IEC 60884-1
polar white, matt,
47231909
enhanced contact
protection IEC 60884-1
anthracite, matt, 47231606
enhanced contact
protection IEC 60884-1
aluminium, matt, 47231404
enhanced contact
protection IEC 60884-1
orange, matt, enhanced 4723191410
contact protection
IEC 60884-1
polar white, matt, without 614743190910
spreader claws
white, glossy, without 614743898210
spreader claws
polar white, glossy, $6147438989 \quad 10$
without spreader claws
16 A, 250 V~
The insert of the red, green and orange socket outlets is colour-coded.

61474319 09, 6147438982 and 6147438989 for the Netherlands!

Connection terminals IEC 60884-1
■ with plug-in terminals

Order no.
Packing
unit


SCHUKO socket outlet for installation in hollow walls
white, glossy \#47438952 10
polar white, glossy \#47438959 10
polar white, matt \#4743 195910
white, glossy, enhanced \#4723 895210 contact protection IEC 60884-1
polar white, glossy, \#4723 895910
enhanced contact
protection IEC 60884-1
polar white, matt, \#4723 195910
enhanced contact
protection IEC 60884-1
$16 \mathrm{~A}, 250 \mathrm{~V} \sim$

Connection terminals IEC 60884-1

- without spreader claws

■ with plug-in terminals


## SCHUKO socket outlet

white, glossy $\quad 41438982 \quad 10$
polar white, glossy $\quad 4143898910$
red, glossy 4143891210
green, glossy 41438913
orange, glossy 41438914
polar white, matt 41431909
anthracite, matt 41431606
aluminium, matt 41431404
red, matt
green, matt
4143191210
4143191310
orange, matt $\quad 41431914$
white, glossy, enhanced 4123898210
contact protection
IEC 60884-1
polar white, glossy, 41238989
enhanced contact
protection IEC 60884-1
polar white, matt, 41231909
enhanced contact
protection IEC 60884-1
anthracite, matt, 41231606 enhanced contact protection IEC 60884-1
aluminium, matt, 41231404
enhanced contact
protection IEC 60884-1
$16 \mathrm{~A}, 250 \mathrm{~V} \sim$
The insert of the red, green and orange socket outlets is colour-coded.

Connection terminals IEC 60884-1

- with screw-in lift terminals

Order no.
Packing
Order no.
Packing
unit


1 on page T6

SCHUKO socket outlet with imprint

| red, glossy, <br> with imprint „EDV" | $\mathbf{4 7 4 3} \mathbf{8 9} \mathbf{2 2}$ | 10 |
| :--- | :---: | :---: |
| green, glossy, <br> with imprint „SV" | $\mathbf{4 7 4 3} \mathbf{8 9} \mathbf{0 3}$ | 10 |
| orange, glossy, <br> with imprint „ZSV" | $\mathbf{4 7 4 3} \mathbf{8 9 0 7}$ | 10 |
| red, matt, <br> with imprint „EDV" <br> green, matt, <br> with imprint „SV" <br> orange, matt, <br> with imprint „ZSV" | $\mathbf{4 7 4 3 1 9 2 2}$ | 10 |

imprint „ZSV
16 A, 250 V~
Insert colour-coded.

Connection terminals IEC 60884-1

- with plug-in terminals


1) on page T6

## SCHUKO socket outlet $45^{\circ}$

| white, glossy | $\mathbf{4 7 2 7 8 9 8 2}$ | 1 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{4 7 2 7 8 9 8 9}$ | 1 |
| polar white, matt | $\mathbf{4 7 2 7 1 9 0 9}$ | 1 |
| anthracite, matt | $\mathbf{4 7 2 7 1 6 0 6}$ | 1 |
| aluminium, matt | $\mathbf{4 7 2 7 1 4 0 4}$ | 1 |

$16 \mathrm{~A}, 250 \mathrm{~V} \sim$
Specially suited for combining several socket outlets if right angle plugs are used.

Connection terminals IEC 60884-1

- for diagonal installation
- with plug-in terminals


1 on page T6

SCHUKO socket outlet with labelling field

## 

| white, glossy | $\mathbf{4 7 5 0 8 9 8 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{4 7 5 0 8 9 8 9}$ | 10 |

$47508902 \quad 10$
4750890310

| orange, glossy | $\mathbf{4 7 5 0 8 9 0 7}$ | 10 |
| :--- | :--- | :--- |
| polar white, matt | $\mathbf{4 7 5 0 1 9 0 9}$ | 10 |


| polar white, matt | $\mathbf{4 7 5 0 1 9 0 9}$ | 10 |
| :--- | :--- | :--- |
| anthracite, matt | $\mathbf{4 7 5 0 1 6 0 6}$ | 10 |

aluminium, matt 47501404
red, matt 47501902
green, matt 4750190310
orange, matt 4750190710
white, glossy, enhanced 4749898210 contact protection
IEC 60884-1
polar white, glossy, 4749898910
enhanced contact protection IEC 60884-1
polar white, matt, 47491909
enhanced contact protection IEC 60884-1
anthracite, matt, 47491606 enhanced contact protection IEC 60884-1
aluminium, matt, 4749140410 enhanced contact protection IEC 60884-1

16 A, 250 V~
The insert of the red, green and orange socket outlets is colour-coded.

Labelling field height arranged for 6 mm P-touch strips.

Connection terminals IEC 60884-1

- with plug-in terminals


1 on page T6

SCHUKO socket outlet with labelling field white, glossy, enhanced 4149898210 contact protection
IEC 60884-1
polar white, glossy, $\quad 41498989 \quad 10$ enhanced contact protection IEC 60884-1 polar white, matt, enhanced contact protection IEC 60884-1
anthracite, matt,
enhanced contact protection IEC 60884-1
aluminium, matt, 41491404
enhanced contact
protection IEC 60884-1
16 A, 250 V~
Labelling field height arranged for 6 mm P-touch strips.

Connection terminals IEC 60884-1
■ with screw-in lift terminals

Order no.
Packing
Order no.
Packing
unit


| SCHUKO socket outlet with indicator lamp, <br> labelling field and imprint <br> green, glossy, <br> with imprint „SV" <br> orange, glossy, <br> with imprint, ZSV" <br> green, matt, <br> with imprint „SV" <br> orange, matt, 41598913 | 10 |
| :--- | :---: | ---: | with imprint , ZSV "

$16 \mathrm{~A}, 250 \mathrm{~V}$ ~
Neon lamp current $1,5 \mathrm{~mA}$
Labelling field height arranged for 6 mm P-touch strips.

Insert is colour-coded.
Replacement neon lamp unit see module inserts / accessories order no. 1609

Execution SV, ZSV to VDE 0100-710
Connection terminals IEC 60884-1

- with neon lamp unit
- with screw-in lift terminals


## SCHUKO-socket outlets with safety device



| SCHUKO socket outlet with overvoltage |  |  |
| :--- | :--- | :--- |
| protection and labelling field |  |  |
| white, glossy | 41088982 | 1 |
| polar white, glossy | 41088989 | 1 |
| red, glossy | 41088962 | 1 |
| polar white, matt | 41081909 | 1 |
| anthracite, matt | 41081606 | 1 |
| aluminium, matt | 41081404 | 1 |
| red, matt | 41081962 | 1 |

$16 \mathrm{~A}, 250 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}$
Labelling field height arranged for 6 mm P-touch strips.

Overvoltage protection to EN 61643 and
VDE 0675-6, -11
Connection terminals IEC 60884-1

- with imprint
- with indicator LED for „on/error"
- with acoustic fault signal
- with screw terminals


I on page T6

SCHUKO socket outlet indicator lamp
and imprint

| green, glossy, <br> with imprint „SV" | $\mathbf{4 1 2 4 8 9 0 3}$ | 10 |
| :--- | :---: | :---: |
| orange, glossy, <br> with imprint „ZSV" | $\mathbf{4 1 2 4 8 9 0 7}$ | 10 |
| green, matt, <br> with imprint „SV" <br> orange, matt, with | $\mathbf{4 1 2 4 1 9 0 3}$ | 10 |
| $\mathbf{4 1 2 4 1 9 0 7}$ | 10 |  | imprin

$16 \mathrm{~A}, 250 \mathrm{~V} \sim$
Neon lamp current 1,5 mA
Insert colour-coded.
Replacement neon lamp unit see module inserts / accessories order no. 1609

Execution SV, ZSV to VDE 0100-710
Connection terminals IEC 60884-1

- with neon lamp unit
- with screw-in lift terminals

SCHUKO socket outlet with indicator lamp and labelling field

| white, glossy | $\mathbf{4 1 5 9} \mathbf{8 9} \mathbf{8 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{4 1 5 9} \mathbf{8 9} 89$ | 10 |
| polar white, matt | $\mathbf{4 1 5 9 1 9 0 9}$ | 10 |
| anthracite, matt | $\mathbf{4 1 5 9 1 6 0 6}$ | 10 |
| aluminium, matt | $\mathbf{4 1 5 9 1 4 0 4}$ | 10 |

aluminium, matt 41591404
aluminium, mat

Neon lamp current 1,5 mA
Labelling field height arranged for 6 mm P-touch strips.

Replacement neon lamp unit see module inserts / accessories order no. 1609

Connection terminals IEC 60884-1

- with neon lamp unit

■ with screw-in lift terminals

Order no.


I on page 160
47088989
1 enhanced contact protection IEC 60884-1
polar white, matt, 470819091 enhanced contact protection IEC 60884-1
$16 \mathrm{~A}, 250 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}$
Rated fault current 30 mA ;
Switch off time <= 30 ms ;
Short-circuit resistance 3 kA (with pre-fuse 20 AgL );
Surge current firmness 250 A (8/20) $\mu \mathrm{s}$
Through-wired socket outlets are also protected.

Suitable for use according to DIN VDE 0100-410
Tested conform VDE 0664 (EN 61008)
Connection terminals IEC 60884-1
■ to protect connected and downstream loads

- with plug-in terminals


## SCHUKO-socket outlets



SCHUKO socket outlet with hinged cover

| white, glossy | $\mathbf{4 7 5 1 8 9 8 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{4 7 5 1 8 9 8 9}$ | 10 |
| polar white, matt | $\mathbf{4 7 5 1} \mathbf{1 9} \mathbf{0 9}$ | 10 |

$16 \mathrm{~A}, 250 \mathrm{~V} \sim$
I on page T6
Connection terminals IEC 60884-1

- with imprint
$\square$ with plug-in terminals


SCHUKO socket outlet with hinged cover white, glossy, enhanced 4744898210 contact protection IEC 60884-1
polar white, glossy
47448989
enhanced contact protection IEC 60884-1 polar white, matt,

47441909
enhanced contact protection IEC 60884-1
anthracite, matt, 47441606 enhanced contact protection IEC 60884-1
aluminium, matt,
47441404 10 enhanced contact protection IEC 60884-1
$16 \mathrm{~A}, 250 \mathrm{~V}$ ~
Specially suited for combining several socket outlets if right angle plugs are used.

Connection terminals IEC 60884-1

- with imprint
- mounting orientation of insert selectable in $45^{\circ}$ steps
■ when opening hinged cover, it can be arrested in end position
- with plug-in terminals


I on page T6

Order no.
Packing
unit

## SCHUKO socket outlet with hinged cover

 and labelling fieldwhite, glossy, enhanced 4746898210
contact protection
IEC 60884-1
polar white, glossy, 4746898910 enhanced contact protection IEC 60884-1
polar white, matt, 4746190910
enhanced contact protection IEC 60884-1
anthracite, matt, 47461606
enhanced contact protection IEC 60884-1
aluminium, matt, 47461404 10 enhanced contact protection IEC 60884-1
16 A, 250 V~
Specially suited for combining several socket outlets if right angle plugs are used.

Labelling field height arranged for 6 mm P-touch strips.

Connection terminals IEC 60884-1
■ with imprint

- mounting orientation of insert selectable in $45^{\circ}$ steps
■ when opening hinged cover, it can be arrested in end position
- with plug-in terminals


## Barrier-free construction



SCHUKO socket outlet with hinged cover and scannable symbol socket outlet polar white, matt 47861949 10
$16 \mathrm{~A}, 250 \mathrm{~V} \sim$

I on page T6 An optical accentuation can be achieved by using a contrast frame order no. 10119945

Barrier-free building based on DIN 18025
Connection terminals IEC 60884-1
$\square$ for barrier-free construction

- with plug-in terminals

Order no.
SCHUKO socket outlet with hinged cover
and scannable symbol socket outlet
polar white, matt,
enhanced contact
protection IEC 60884-1
$16 \mathrm{~A}, 250 \mathrm{~V} \sim$

## Socket outlets with earth pin


Socket outlet with earth pin
white, glossy, enhanced $\quad 6765768982$
white, glossy, enhanced 6765768982
contact protection
IEC 60884-1
polar white, glossy, $6765768989 \quad 10$
enhanced contact
I on page T6 protection IEC 60884-1
red, glossy, enhanced 676576896210
contact protection
IEC 60884-1
green, glossy, enhanced 676576896310
contact protection
IEC 60884-1
polar white, matt, $\quad 6765761909$
enhanced contact
protection IEC 60884-1
anthracite, matt, 6765761606
enhanced contact
protection IEC 60884-1
aluminium, matt, 6765761404
enhanced contact
protection IEC 60884-1
red, matt, enhanced 6765760062
contact protection
IEC 60884-1
green, matt, enhanced 676576006310
contact protection
IEC 60884-1
$16 \mathrm{~A}, 250 \mathrm{~V} \sim$

Connection terminals IEC 60884-1
■ 2pole + earth

- with screw-in lift terminals

Order no.


Socket outlet with earth pin
white, glossy, enhanced 6768768982
contact protection IEC
60884-1
polar white, glossy, enhanced contact
I on page T6 protection IEC 60884-1
red, glossy, enhanced
6768768962
contact protection IEC 60884-1
green, glossy, enhanced 676876896310
contact protection
IEC 60884-1
polar white, matt, $\quad 6768761909 \quad 10$
enhanced contact
protection IEC 60884-1
anthracite, matt,
6768761606
enhanced contact
protection IEC 60884-1
aluminium, matt, $\quad 6768761404$
enhanced contact
protection IEC 60884-1
red, matt, enhanced
6768760062
contact protection
IEC 60884-1
green, matt, enhanced
6768760063
contact protection
IEC 60884-1
16 A, 250 V~

Connection terminals IEC 60884-1
2pole + earth

- with plug-in terminals


## British Standard socket outlets



Socket outlet with earth contact,
British Standard, can be switched off
polar white, matt, with 63471909
enhanced contact
protection
anthracite, matt, with
enhanced contact
protection
aluminium, matt, with
63471404
10
enhanced contact
protection
13 A, 250 V~
Equates to standard BS 1363: Part 2.
Not for the UK.
For fitting in standard wall boxes according to
DIN 49073-1

- 2pole + earth
- without neon lamp
- without spreader claws
- with screw terminals


## NEMA socket outlets

|  | Socket outlet with earth contact, USA/CANADA, NEMA 5-15 R |  |  |
| :---: | :---: | :---: | :---: |
| 1 I | white, glossy | 41668982 | 10 |
| - | polar white, glossy | 41668989 | 10 |
|  | polar white, matt | 41661909 | 10 |

$15 \mathrm{~A}, 125 \mathrm{~V}$ ~
Not UL-certified.
Equates to standard NEMA 5-15 R

- 2pole + earth
- without spreader claws
- with screw terminals


Socket outlet with earth contact, USA/CANADA, NEMA 5-20 R

| white, glossy | $\mathbf{4 1 6 8 8 9 8 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{4 1 6 8 8 9 8 9}$ | 10 |
| polar white matt, | $\mathbf{4 1 6 8 1 9 0 9}$ | 10 |

lacquered
$20 \mathrm{~A}, 125 \mathrm{~V} \sim$
Not UL-certified.
Equates to standard NEMA 5-20 R

- 2pole + earth
- without spreader claws
- with screw terminals


## Euro-American socket outlets

|  | Socket outlet without earth contact <br> "Euro-American Standard" |  |
| :--- | :--- | :--- | :--- |
| polar white, matt, <br> enhanced contact <br> protection | $\mathbf{3 3 4 1 7 2 9 0 9}$ | 10 |
| anthracite, matt, <br> enhanced contact <br> protection <br> aluminium, matt, | $\mathbf{3 3} 41712606$ | 10 |

aluminium, matt, $\quad 3341712404 \quad 10$ enhanced contact
protection
$10 \mathrm{~A}, 250 \mathrm{~V}$ ~
Only for Asia!
Connection terminals IEC 60884-1

- 2pole
- centre plate plug-in fixing
- without spreader claws
$\square$ with screw terminals


Order no.
Packing
unit


Rocker with red lens and "Heizung Notschalter" imprint

| red, glossy | $\mathbf{1 6 2 1 8 9 0 2}$ | 10 |
| :--- | :--- | :--- |
| red, matt | $\mathbf{1 6 2 1} \mathbf{1 9 0 2}$ | 10 |

Or use glass pane protected heating emergency switch from programme ranges Arsys, flush-mounted splash-protected IP44, Aquatec IP44.

Not suitable for heating systems > 50 kW .

- for rocker switches change-over, intermediate
- for rocker push-buttons
- for push-button BCU 1gang and group push-button BCU 1gang
$\square$ for monitoring circuit
Rocker with 5 lenses attached and labelling field

| white, glossy | $\mathbf{1 6 2 8} \mathbf{8 9} \mathbf{8 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 6 2 8} \mathbf{8 9} \mathbf{8 9}$ | 10 |
| polar white, matt | $\mathbf{1 6 2 8} \mathbf{1 9 0 9}$ | 10 |
| anthracite, matt | $\mathbf{1 6 2 8} \mathbf{1 6 0 6}$ | 10 |
| aluminium, matt | $\mathbf{1 6 2 8} \mathbf{1 4 0 4}$ | 10 |

Labelling field height arranged for 6 mm P-touch strips for labelling with names, notes etc.

Lenses with symbol for light, bell, door and neutral in clear, also neutral in red transparent.

- for rocker switches change-over, intermediate
- for rocker push-buttons

■ for push-button BCU 1gang and group push-button BCU 1gang
$\square$ for illumination and monitoring circuit
Rocker with 5 lenses attached and large labelling field

| white, glossy | $\mathbf{1 6 9 6 8 9 8 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 6 9 6 8 9 8 9}$ | 10 |
| polar white, matt | $\mathbf{1 6 9 6 1 9 0 9}$ | 10 |
| anthracite, matt | $\mathbf{1 6 9 6} \mathbf{1 6 0 6}$ | 10 |
| aluminium, matt | $\mathbf{1 6 9 6 1 4 0 4}$ | 10 |

Labelling field ( $\mathrm{w} \times \mathrm{h}$ ) approx. $50,8 \times 25,5 \mathrm{~mm}$
Labelling field height arranged for 12 mm P-touch strips for labelling with names, notes etc.

Lenses with symbol for light, bell, door and neutral in clear, also neutral in red transparent.

- for rocker switches change-over, intermediate
- for rocker push-buttons
$\square$ for push-button BCU 1gang and group push-button BCU 1gang
- for illumination and monitoring circuit

Order no.


Rocker with imprint „0"

| white, glossy | $\mathbf{1 6 2 2} \mathbf{8 9} \mathbf{8 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 6 2 2} \mathbf{8 9} \mathbf{8 9}$ | 10 |
| polar white, matt | $\mathbf{1 6 2 2} \mathbf{1 9 0 9}$ | 10 |
| anthracite, matt | $\mathbf{1 6 2 2} \mathbf{1 6 0 6}$ | 10 |
| aluminium, matt | $\mathbf{1 6 2 2} \mathbf{1 4 0 4}$ | 10 |

For rocker switch 2pole on/off order no. 3032 ..
For rocker switch 3pole on/off order no. 303303

■ for multi-pole rocker switch with predefined 0 position


Rocker with red lens and imprint „0"

| white, glossy | $\mathbf{1 6 2 4 \mathbf { 8 9 } \mathbf { 8 2 }}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 6 2 4 \mathbf { 8 9 } 8 9}$ | 10 |
| polar white, matt | $\mathbf{1 6 2 4} \mathbf{1 9 0 9}$ | 10 |
| anthracite, matt | $\mathbf{1 6 2 4} \mathbf{1 6} \mathbf{0 6}$ | 10 |
| aluminium, matt | $\mathbf{1 6 2 4} \mathbf{1 4 \mathbf { 0 4 }}$ | 10 |

For rocker switch 2pole on/off order no. 3032 ..
For rocker switch 3pole on/off order no. 303303

- for multi-pole rocker switch with predefined 0 position
- for group push-button BCU 1gang
$\square$ for illumination and monitoring circuit


## Rotary switches



For rotary switch order no. 3862 ..

■ with imprint „0" and „1"

## Rockers

|  | Rockers |  |  |
| :--- | :--- | :--- | :--- |
|  | white, glossy | $\mathbf{1 6 2 3} \mathbf{8 9} \mathbf{8 2}$ | 10 |
|  | polar white, glossy | $\mathbf{1 6 2 3} \mathbf{8 9} \mathbf{8 9}$ | 10 |
|  | polar white, matt | $\mathbf{1 6 2 3} \mathbf{1 9} \mathbf{0 9}$ | 10 |
|  | anthracite, matt | $\mathbf{1 6 2 3} \mathbf{1 6} \mathbf{0 6}$ | 10 |
|  | aluminium, matt | $\mathbf{1 6 2 3} \mathbf{1 4 0 4}$ | 10 |

■ for rockers switches
■ for rockers push-buttons and group rockers pushbuttons

- for push-button BCU 2gang and group push-button BCU 2gang

Order no.
Order no.
Packing


| $l$ |  |  |
| :--- | :--- | :--- |
| Rockers with red lens  <br> white, glossy $\mathbf{1 6 2 7} \mathbf{8 9 8 2}$ | 10 |  |
| polar white, glossy | $\mathbf{1 6 2 7} \mathbf{8 9 8 9}$ | 10 |
| polar white, matt | $\mathbf{1 6 2 7} \mathbf{1 9 0 9}$ | 10 |
| anthracite, matt | $\mathbf{1 6 2 7} \mathbf{1 6 0 6}$ | 10 |
| aluminium, matt | $\mathbf{1 6 2 7} \mathbf{1 4 0 4}$ | 10 |

- for rockers switches
- for rockers push-buttons and group rockers pushbuttons
- for illumination and monitoring circuit
- for push-button BCU 2gang and group push-button BCU 2gang

| Rockers for rockers switch 3gang on/off |  |  |
| :--- | :---: | :---: |
| white, glossy | $\mathbf{1 6 6 5} \mathbf{8 9} \mathbf{8 2}$ | 10 |
| polar white, glossy | $\mathbf{1 6 6 5 \mathbf { 8 9 } 8 9}$ | 10 |
| polar white, matt | $\mathbf{1 6 6 5 \mathbf { 1 9 } \mathbf { 0 9 }}$ | 10 |
| anthracite, matt | $\mathbf{1 6 6 5 \mathbf { 1 6 } \mathbf { 0 6 }}$ | 10 |
| aluminium, matt | $\mathbf{1 6 6 5 \mathbf { 1 4 ~ 0 4 }}$ | 10 |

For rockers switch 3gang on/off order no. 633023


| Rockers with imprinted symbol arrow |  |  |
| :--- | ---: | :--- |
| white, glossy | $\mathbf{1 6 2 5} \mathbf{8 9 8 2}$ | 10 |
| polar white, glossy | $\mathbf{1 6 2 5} \mathbf{8 9 8 9}$ | 10 |
| polar white, matt | $\mathbf{1 6 2 5} \mathbf{1 9 0 9}$ | 10 |
| anthracite, matt | $\mathbf{1 6 2 5} \mathbf{1 6 0 6}$ | 10 |
| aluminium, matt | $\mathbf{1 6 2 5} \mathbf{1 4 0 4}$ | 10 |

For rockers switch for shutters order no. 303520
For rockers push-button for shutters order no. 503520
For push-button BCU 2gang order no. 75142000


| Rocker with imprinted symbol arrows |  |  |
| :--- | :--- | :--- |
| white, glossy | $\mathbf{1 6 2 0} \mathbf{8 9} \mathbf{1 2}$ | 10 |
| polar white, glossy | $\mathbf{1 6 2 0} \mathbf{8 9} \mathbf{1 9}$ | 10 |
| polar white, matt | $\mathbf{1 6 2 0} 19 \mathbf{1 9}$ | 10 |
| anthracite, matt | $\mathbf{1 6 2 0} 16 \mathbf{1 6}$ | 10 |
| aluminium, matt | $\mathbf{1 6 2 0} \mathbf{1 4 1 4}$ | 10 |

For group push-button BCU 1 gang order no. 75141100


| Rockers with imprinted symbol arrows |  |  |
| :--- | ---: | :--- |
| white, glossy | $\mathbf{1 6 4 4} \mathbf{8 9} \mathbf{8 2}$ | 10 |
| polar white, glossy | $\mathbf{1 6 4 4} \mathbf{8 9} \mathbf{8 9}$ | 10 |
| polar white, matt | $\mathbf{1 6 4 4} \mathbf{1 9} \mathbf{0 9}$ | 10 |
| anthracite, matt | $\mathbf{1 6 4 4} \mathbf{1 6} \mathbf{0 6}$ | 10 |
| aluminium, matt | $\mathbf{1 6 4 4} \mathbf{1 4 0 4}$ | 10 |

For group rockers push-button as 2 pole rockers push-button for shutters with middle positions order no. 503404
For group push-button BCU 2gang order
no. 75142100

Rockers screw-on

|  | Rocker screw-on |  |  |
| :--- | :--- | :--- | :--- |
| polar white, matt | $\mathbf{1 5 7 0} 1909$ | 10 |  |
| anthracite, matt | $\mathbf{1 5 7 0 1 6 0 6}$ | 10 |  |
| aluminium, matt | $\mathbf{1 5 7 0 1 4 0 4}$ | 10 |  |

■ with cover plug for screw fitting

- for rocker switches change-over, intermediate
- for rocker push-buttons



| Rocker screw-on with imprint „0"" |  |  |
| :--- | :---: | :--- |
| polar white, matt | $\mathbf{1 5 7 3} 19$ 09 |  |
| anthracite, matt | $\mathbf{1 5 7 3 1 0} 16$ | 10 |
| aluminium, matt | $\mathbf{1 5 7 3 1 4 0 4}$ | 10 |

For rocker switch 2pole on/off order no. 3032 ..
For rocker switch 3pole on/off order no. 303303

- with cover plug for screw fitting
- for multi-pole rocker switch with predefined 0 position


Rocker screw-on with red lens and imprint „0"
polar white, matt 1577190910
anthracite, matt 15771606
aluminium, matt 15771404
For rocker switch 2pole on/off order no. 3032 ..
For rocker switch 3pole on/off order no. 303303

- with cover plug for screw fitting
- for multi-pole rocker switch with predefined 0 position
■ for illumination and monitoring circuit


Rockers screw-on
polar white, matt 1571190910
anthracite, matt 15711606
aluminium matt
10

- with cover plug for screw fitting
- for rockers switches

■ for rockers push-buttons and group rockers pushbuttons

Order no.
Packing
Order no.
Packing
unit
Barrier-free construction


Rocker with 5 lenses attached and mouth-held rod
polar white, matt 16611949
Lenses with symbol for light, bell, door and neutral in clear, also neutral in red transparent.
An optical accentuation can be achieved by using a contrast frame order no. 10119945

Barrier-free building based on DIN 18025
$\square$ for barrier-free construction
■ for rocker switches change-over, intermediate

- for rocker push-buttons
$\square$ for push-button BCU 1gang and group push-button BCU 1gang
- for illumination and monitoring circuit



## Rocker with red lens

and touchable symbol light
polar white, matt 16511949
An optical accentuation can be achieved by using a contrast frame order no. 10119945

Barrier-free building based on DIN 18025
■ for barrier-free construction
$\square$ for rocker switches change-over, intermediate
■ for rocker push-buttons

- for illumination and monitoring circuit
- for push-button BCU 1gang and group push-button BCU 1gang



## Rocker with red lens

and touchable symbol bell
polar white, matt 16511959
10

An optical accentuation can be achieved by using a contrast frame order no. 10119945

Barrier-free building based on DIN 18025
■ for barrier-free construction

- for illuminated rocker push-buttons

■ for push-button BCU 1gang


## Rocker with red lens

and touchable symbol door
polar white, matt 16511969

An optical accentuation can be achieved by using a contrast frame order no. 10119945

Barrier-free building based on DIN 18025

- for barrier-free construction

■ for illuminated rocker push-buttons

- for push-button BCU 1gang


I on page T6

| Hotel card switch cover with imprint <br> and red lens <br> white, glossy | $\mathbf{1 6 4 0 \mathbf { 8 9 } \mathbf { 8 2 }}$ |  |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 6 4 0 \mathbf { 8 9 } \mathbf { 8 9 }}$ | 10 |
| polar white, matt | $\mathbf{1 6 4 0} \mathbf{1 9 0 9}$ | 10 |
| anthracite, matt | $\mathbf{1 6 4 0} \mathbf{1 6 0 6}$ | 10 |
| aluminium, matt | $\mathbf{1 6 4 0} \mathbf{1 4 0 4}$ | 10 |

Max. card width 54 mm ;
Card strength 0,5-1,4 mm
Other imprint on request!
For push-button insert for hotel card switch covers order no. 5051 02, 5051 03, 5052 01, 505601

## Pullcord switches/pullcord push-buttons

| - | Centre plate for pullcord switch and pullcord push-button |  |  |
| :---: | :---: | :---: | :---: |
|  | white, glossy | 11468982 | 10 |
|  | polar white, glossy | 11468989 | 10 |
|  | polar white, matt | 11461909 | 10 |
|  | anthracite, matt | 11461606 | 10 |
|  | aluminium, matt | 11461404 | 10 |

For pullcord push-button order no. 395619
For pullcord switch order no. 3962, 3966, 613966

## 3-step switches



| Centre plate with rotary knob for 3-step switch |  |  |
| :---: | :---: | :---: |
| white, glossy, without 0-position | 10848982 | 1 |
| polar white, glossy, without 0-position | 10848989 | 1 |
| polar white, matt, without 0-position | 10841909 | 1 |
| anthracite, matt, without 0-position | 10841606 | 1 |
| aluminium, matt, without 0-position | 10841404 | 1 |
| white, glossy, with neutral-position | 10968982 | 1 |
| polar white, glossy, with neutral-position | 10968989 | 1 |
| polar white, matt, with neutral-position | 10961909 | 1 |
| anthracite, matt, with neutral-position | 10961606 | 1 |
| aluminium, matt, | 10961404 | 1 |

with neutral-position

For 3-step switch with 0-position order no. 3861
For 3-step switch without 0-position order
no. 3861 01, 61386101

■ with imprint


Order no.

Order no.

## BLANK PLATES



| Blank plate with centre plate |  |  |
| :---: | :---: | :---: |
| white, glossy, without spreader claws | 10098982 | 20 |
| polar white, glossy, without spreader claws | 10098989 | 20 |
| polar white, matt, without spreader claws | 10091909 | 20 |
| anthracite, matt, without spreader claws | 10091606 | 20 |
| aluminium, matt, without spreader claws | 10091404 | 20 |
| white, glossy, with base and spreader claws | 6710098982 | 10 |
| polar white, glossy, with base and spreader claws | 6710098989 | 10 |
| polar white, matt, with base and spreader claws | 6710091909 | 10 |
| anthracite, matt, with base and spreader claws | 6710091606 | 10 |
| aluminium, matt, with base and spreader claws | 6710091404 | 10 |

- on supporting plate without cut-out

■ centre plate plug-in fixing


## PILOT LAMPS



## Centre plate for push-button and pilot lamp E10

| white, glossy | $\mathbf{1 1 2 4 \mathbf { 8 9 } \mathbf { 8 2 }}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 1 2 4 8 9 8 9}$ | 10 |
| polar white, matt | $\mathbf{1 1 2 4} \mathbf{1 9 0 9}$ | 10 |
| anthracite, matt | $\mathbf{1 1 2 4 1 6 0 6}$ | 10 |
| aluminium, matt | $\mathbf{1 1 2 4 1 4 \mathbf { 0 4 }}$ | 10 |

Cut-out diameter 27,2 mm
Push-buttons, LEDs, neon lamps and covers see module inserts.
For push-button and pilot lamp E10 order no. 5101 ..


Centre plate for pilot lamp E14
white, glossy 1198898210
polar white, glossy 1198898910
polar white, matt 1198190910
anthracite, matt 1198160610
aluminium, matt 11981404

LEDs, incandescent lamps and covers see module inserts.
For pilot lamp E14 order no. 513102

## Cover for LED orientation light

 and LED signal lighttransparent 12481900
1

For LED orientation light order no. 2951
For LED signal light order no. 2952

■ with printed label sheets „Please wait/Please enter" and „Do not disturb/make up room"

- with milky foil, for individual labelling


Info pilot lamp cover with 5 label sheets
white, glossy 134589821
polar white, glossy $13458989 \quad 1$
polar white, matt 13451909
anthracite, matt 13451606
aluminium, matt 13451404
Current input 25 mA ;
LED output 800 mW
Labels supplied: „Nicht eintreten", „Besetzt",
„Bitte eintreten", „Bitte Ruhe", „Bitte warten".
Coloured cover plate see module inserts order
no. 1289 ..
For insert info pilot lamp order no. 2949

- with 4 light intensity LED

■ very long LED lifetime

- with clear cover plate


## INTERCOM DEVICE



Centre plate for voice section insert

| polar white, matt | 17331909 | 1 |
| :--- | :--- | :--- |
| anthracite, matt | 17331606 | 1 |
| aluminium, matt | $\mathbf{1 7 3 3 1 4 0 4}$ | 1 |

The Ritto flush-mounted intercom insert and control insert are installed in 2 wall boxes. The control insert with integral TwinBus coupling unit is covered with a 2 gang push-button. Operation at the push-button: talk, mute, switch light, open door.
For double combinations an additional 2gang pushbutton is required, order no. 7516 ..

Flush-mounting inserts for intercom points for switch systems:
Ritto, TwinBus, order no. 17133/00

- with microphone and loudspeaker
- with labelling field insert for push-button 2gang printed with symbols for talk and open door

■ centre plate plug-in fixing

Order no.

| Centre plate with setting knob <br> for mechanical timer <br> white, glossy, <br> max. 15 min | 16328982 | 1 |
| :--- | :--- | :--- |
| polar white, glossy, <br> max. 15 min | 16328989 | 1 |
| polar white, matt, <br> max. 15 min | 16321909 | 1 |
| anthracite, matt, <br> max. 15 min | 16321606 | 1 |
| aluminium, matt, <br> max. 15 min | 16321404 | 1 |
| white, glossy, <br> max. 120 min | 16338982 | 1 |
| polar white, glossy, <br> max. 120 min | 16338989 | 1 |
| polar white, matt, <br> max. 120 min | 16331909 | 1 |
| anthracite, matt, <br> max. 120 min | 16331606 | 1 |
| aluminium, matt, | 16331404 | 1 |

natt,
16331404

Mechanical automatic timer 15 min order no. 2040 Mechanical automatic timer 120 min order no. 2041

■ with time scale imprint


Centre plate with push-button
for timer relay switch insert
polar white, glossy 1674898910
polar white, matt 1674190910
anthracite, matt 16741606
aluminium, matt 16741404

Axial dimension diameter 4 mm
For timer relay switch insert order no. 294810

- with imprint

■ with clear lens


Order no.


## I on page T7

Timer with display and sensor connection
white, glossy 173889821
polar white, glossy $17388989 \quad 1$
polar white, matt 173819091

| anthracite, matt | 17381606 | 1 |
| :--- | :--- | :--- |
| aluminium, matt | 17381404 | 1 |

Setting range twilight approx. 6-300 Lux;

Switching times 18 for on/off;
Random generator +/- 15 min .;
Astronomic time shift +/- 2 hrs.;
Power reserve approx. 24 hrs.;
Countdown function 0-23 hrs. 59 min.
For manual and timer programmed switching of electrical loads.

For RolloTec brightness sensors order no. 0169, 0184 For insert for timer order no. 2948
with imprint in German

- with pre-set base programme
- 2 independent programme memories for everyday/ holidays
- with week and day programme
- with slide switch from summer to winter time
astro programme for sunrise/sundown switching
- large-area display with symbols
- with slide switch for manual/automatic
$\square$ for sensor connection to socket contact or terminal block
- connected RolloTec brightness sensor can be used for twilight-controlled switching-on


Centre plate with setting knob for rotary dimmer

| white, glossy | $\mathbf{1 1 3 7 8 9 8 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 1 3 7 8 9 8 9}$ | 10 |
| polar white, matt | $\mathbf{1 1 3 7 1 9} \mathbf{0 9}$ | 10 |
| anthracite, matt | $\mathbf{1 1 3 7 1 6 0 6}$ | 10 |
| aluminium, matt | $\mathbf{1 1 3 7 1 4 0 4}$ | 10 |

Axial dimension diameter 4 mm

For rotary dimmer order no. 2819 .., 2830 10, 2860 10, 2875, 2885
For universal rotary dimmer order no. 286110
For universal rotary dimmer extension unit order no. 286210
For rotary dimmer LV order no. 2866 10, 2873
For Tronic rotary dimmer order no. 2867 10, 2874
For rotary potentiometer 1-10 V order no. 289110
For push-button rotary potentiometer 1-10 V order no. 289610
For rotary potentiometer DALI order no. 2897
For rotary potentiometer DALI with integrated power supply unit order no. 2898

Order no.
Packing
unit


## UNIVERSAL SERIES TOUCH DIMMERS



I on page T10
Button for universal series touch dimmer

| white, glossy | $\mathbf{1 7 6 5 8 9 8 2}$ | 1 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 7 6 5 8 9 8 9}$ | 1 |
| polar white, matt | $\mathbf{1 7 6 5 1 9 0 9}$ | 1 |
| anthracite, matt | $\mathbf{1 7 6 5 1 6 0 6}$ | 1 |
| aluminium, matt | $\mathbf{1 7 6 5 1 4 0 4}$ | 1 |

For universal series touch dimmer order no. 2901
$\square$ for 2 independent lighting groups
■ with 2-push-buttons operation concept per series

## BLC BERKER LIGHT CONTROL

## Buttons

M

I on page T12

## BLC button

white, glossy
$17618982 \quad 1$
polar white, glossy
polar white, matt
anthracite, matt
17618989
17611909
17611606
aluminium, matt
17611404

For BLC universal touch dimmer order no. 2902 For BLC touch control unit 1-10 V order no. 2903 For BLC touch dimmer LV order no. 2904 For BLC triac switch insert LV order no. 2905 For BLC relay switch insert order no. 2906
For BLC relay switch insert with potential-free contact order no. 290610
For BLC extension unit order no 2907
For BLC relay switch insert HVAC order no. 2912
For BLC Tronic switch insert order no. 2916
For BLC stair light time switching impulse insert order no. 293410

■ with 2-push-buttons operation concept

- switch-on brightness for BLC dimmer insert mainsfailure protection storable
- with BLC relay switch insert HVAC used as timer as well

Order no.
Packing
unit
Radio buttons

1 on page T12

| BLC radio button |  |  |
| :--- | :--- | :--- |
| white, glossy | $\mathbf{1 7 6 0 \mathbf { 8 9 } \mathbf { 8 2 }}$ | 1 |
| polar white, glossy | $\mathbf{1 7 6 0 \mathbf { 8 9 } \mathbf { 8 9 }}$ | 1 |
| polar white, matt | $\mathbf{1 7 6 0 \mathbf { 1 9 } \mathbf { 0 9 }}$ | 1 |
| anthracite, matt | $\mathbf{1 7 6 0 \mathbf { 1 6 0 6 }}$ | 1 |
| aluminium, matt | $\mathbf{1 7 6 0 \mathbf { 1 4 0 4 }}$ | 1 |

Radio signal reception frequency $433,42 \mathrm{MHz}$;

Learnable radio transmitters 30

Extension unit operation with BLC extension unit and push-button (NO) possible as of release R2.1.

For actuation via button and radio transmitter.
For BLC universal touch dimmer order no. 2902 For BLC touch control unit 1-10 V order no. 2903
For BLC touch dimmer LV order no. 2904
For BLC triac switch insert LV order no. 2905
For BLC relay switch insert order no. 2906
For BLC relay switch insert with potential-free contact order no. 290610
For BLC relay switch insert HVAC order no. 2912
For BLC Tronic switch insert order no. 2916

■ with 2-push-buttons operation concept
■ with 5 light scenes for „on/off", dimming value
■ retrieving light scenes only by using radio transmitter

- radio signal of taught-in radio controller activates for 1 minute (subsequently triggered)
- switch-on brightness for BLC dimmer insert mainsfailure protection storable
■ reset function (to factory setting)

Order no.
Packing
unit

## BLC Controllers



BLC controller 1.1m

| white, glossy | $\mathbf{1 7 8 3 8 9 8 2}$ |
| :--- | :--- |
| polar white, glossy | 17838989 |
| polar white, matt | $\mathbf{1 7 8 3 1 9 0 9}$ |
| anthracite, matt | $\mathbf{1 7 8 3 1 6 0 6}$ |
| aluminium, matt | $\mathbf{1 7 8 3 1 4 0 4}$ |

aluminium, matt 17831404
Nominal mounting height $1,1 \mathrm{~m}$;
Range frontal approx. 10 m ;
Range lateral each approx. 6 m ;
Detection field semi-oval shaped approx. $10 \times 12$ m;
Detection angle $180^{\circ}$;
Detection levels 2;
Switching segments 72;
Response sensitivity programmable approx. 20-100 \% ;
Response brightness adjustable approx. 0-80/ unlimited Lux;
Delay time approx. 2 min.;
Operating temperature $-20-+45^{\circ} \mathrm{C}$;
Dimensions assembling height $23,5 \mathrm{~mm}$
Direct sunlight penetration the upward-pointing detection plane results in failure of the movement controller. Only suitable for interiors!

Switches on for the duration of the controller delay time in case minimum response brightness level is infringed and if movement of people is detected. In conjunction with a BLC relay switch unit HVAC, the HVAC-channel is also switched on for the duration of its delay time independent of response brightness.

For BLC universal touch dimmer order no. 2902
For BLC touch control unit 1-10 V order no. 2903 For BLC touch dimmer LV order no. 2904 For BLC triac switch insert LV order no. 2905
For BLC relay switch insert order no. 2906
For BLC relay switch insert with potential-free contact order no. 290610
For BLC controller extension unit order no. 2908
For BLC relay switch insert HVAC order no. 2912
For BLC Tronic switch insert order no. 2916
For BLC stair light time switching impulse insert order no. 293410

■ activation by push-button opener in the cable
■ with cover to limit detection angle to $90^{\circ}$

Order no.


1 on page T20

BLC controller 2.2m

| white, glossy | $\boldsymbol{* 1 7 8 8} \mathbf{8 9} \mathbf{8 2}$ | 1 |
| :--- | :--- | :--- |
| polar white, glossy | $\boldsymbol{* 1 7 8 8} \mathbf{8 9} \mathbf{8 9}$ | 1 |
| polar white, matt | $\boldsymbol{* 1 7 8 8 \mathbf { 1 9 } \mathbf { 0 9 }}$ | 1 |
| anthracite, matt | $\boldsymbol{* 1 7 8 8 1 6 \mathbf { 0 6 }}$ | 1 |
| aluminium, matt | $\boldsymbol{* 1 7 8 8 1 4 0 4}$ | 1 |

Nominal mounting height $2,2(1,1) \mathrm{m}$;
Range frontal approx. 12 (6) m;
Range lateral each approx. 6 (3) m;
Detection field semi-oval shaped approx. $12 \times 12 \mathrm{~m}$
Detection angle $180^{\circ}$;
Detection levels 6;
Switching segments 268;
Response brightness (learnable) approx. 10 lx;
Delay time approx. 2 min.;
Operating temperature $-15-+45^{\circ} \mathrm{C}$
As delivered and reset condition: response brightness 10 lx .

Switches on for the duration of the motion detector delay time in case minimum response brightness level is infringed and if movement of people is detected.
In conjunction with a BLC relay switch unit HVAC, the HVAC-channel is also switched on for the duration of its delay time independent of response brightness.

For BLC universal touch dimmer order no. 2902 For BLC touch control unit 1-10 V order no. 2903
For BLC touch dimmer LV order no. 2904
For BLC triac switch insert LV order no. 2905
For BLC relay switch insert order no. 2906
For BLC relay switch insert with potential-free contact order no. 290610
For BLC controller extension unit order no. 2908
For BLC relay switch insert HVAC order no. 2912 For BLC Tronic switch insert order no. 2916 For BLC stair light time switching impulse insert order no. 293410

- with crawl-under protection
$■ \mu$-processor controlled operation (detection signal evaluation and interference signal suppression)
■ glare-proof e.g. against a torch
$\square$ no switch-on in case of inadvertent brief shadowing
$\square$ with adaptive sensitivity adjustment
- switch-on brightness for BLC dimmer insert with hand transmitter and BLC extension unit storable
$\square$ dimming insert switch-off advance warning (30 s dimming process)
- with teach function for response brightness
- activation by push-button opener in the cable


Order no.

BLC controller 180
white, glossy \#17868982 1
polar white, glossy \#17868989 1
polar white, matt \#17861909 1
anthracite, matt \#17861606
aluminium, matt \#1786 1404

Nominal mounting height $2,2 \mathrm{~m}$;
Range frontal approx. 12 m ;
Range lateral each approx. 6 m;
At assembly height $1,1 \mathrm{~m}$;
Range frontal approx. 6 m ;
Range lateral each approx. 3 m ;
Detection field semi-oval shaped approx. $12 \times 12 \mathrm{~m}$;
Detection angle $180^{\circ}$
Detection levels 3;
Switching segments 104;
Response sensitivity programmable
approx. 20-100\%;
Response brightness adjustable approx. 0-80/
unlimited Lux;
Delay time approx. 2 min.;
Operating temperature $-20-+45^{\circ} \mathrm{C}$;
Dimensions assembling height $23,5 \mathrm{~mm}$
Switches on for the duration of the controller delay time in case minimum response brightness level is infringed and if movement of people is detected. In conjunction with a BLC relay switch unit HVAC, the HVAC-channel is also switched on for the duration of its delay time independent of response brightness.
For BLC universal touch dimmer order no. 2902
For BLC touch control unit 1-10 V order no. 2903 For BLC touch dimmer LV order no. 2904
For BLC triac switch insert LV order no. 2905
For BLC relay switch insert order no. 2906
For BLC relay switch insert with potential-free contact order no. 290610
For BLC controller extension unit order no. 2908
For BLC relay switch insert HVAC order no. 2912
For BLC Tronic switch insert order no. 2916 For BLC stair light time switching impulse insert order no. 293410

- activation by push-button opener in the cable
- with cover to limit detection angle to $90^{\circ}$

Order no.
Packing
Order no


I on page T15

| BLC controller comfort 1,1 m |  |
| :--- | ---: |
| white, glossy | 17848982 |
| polar white, glossy | 17848989 |
| polar white, matt | $\mathbf{1 7 8 4 1 9 0 9}$ |
| anthracite, matt | 17841606 |
| aluminium, matt | $\mathbf{1 7 8 4 1 4 0 4}$ |

Nominal mounting height $1,1 \mathrm{~m}$;
Range frontal approx. 10 m ;
Range lateral each approx. 6 m ;
Detection field semi-oval shaped approx. $10 \times 12 \mathrm{~m}$;
Detection angle $180^{\circ}$;
Detection levels 2;
Switching segments 72;
Response sensitivity programmable approx. 20-100 \% ;
Response brightness adjustable approx. 0-80 /
unlimited Lux;
Delay time adjustable approx. $10 \mathrm{sec} .-30 \mathrm{~min}$. ;
Time to dim down 30 sec.;
Step operation $0,5 \mathrm{sec}$.;
Immunity time approx. 3 sec.;
Operating temperature $-20-+45^{\circ} \mathrm{C}$
Dimensions assembling height $23,5 \mathrm{~mm}$
Direct sunlight penetration the upward-pointing detection plane results in failure of the movement controller. Only suitable for interiors!

Switches on for the duration of the motion detector delay time in case minimum response brightness level is infringed and if movement of people is detected.
In conjunction with a BLC relay switch unit HVAC, the HVAC-channel is also switched on for the duration of its delay time independent of response brightness.

For BLC universal touch dimmer order no. 2902 For BLC touch control unit 1-10 V order no. 2903
For BLC touch dimmer LV order no. 2904
For BLC triac switch insert LV order no. 2905
For BLC relay switch insert order no. 2906
For BLC relay switch insert with potential-free contact order no. 290610
For BLC controller extension unit order no. 2908
For BLC relay switch insert HVAC order no. 2912
For BLC Tronic switch insert order no. 2916
For BLC stair light time switching impulse insert
order no. 293410

■ with slide switch for off/automatic/on
■ $\mu$-processor controlled operation (detection signal evaluation and interference signal suppression)
■ glare-proof e.g. against a torch
■ no switch-on in case of inadvertent brief shadowing
■ with adaptive sensitivity adjustment
$\square$ with teach function for response brightness
$■$ step operation with immunity time (e.g. for bell)

- switch-on brightness in conjunction with BLC dimmer inserts can only be saved via BLC extension unit
- with dimming function (soft-off) when using BLC dimmer inserts
■ activation by push-button opener in the cable
$\square$ with cover to limit detection angle to $90^{\circ}$


I on page T20

BLC IR controller comfort 2,2 m
white, glossy *17898982 1
polar white, glossy *17898989 1
polar white, matt *17891909 1
anthracite, matt *17891606 1
aluminium, matt *17891404
Nominal mounting height $2,2(1,1) \mathrm{m}$;
Range frontal approx. 12 (6) m;
Range lateral each approx. 6 (3) m;
Detection field semi-oval shaped approx. $12 \times 12 \mathrm{~m}$;
Detection angle $180^{\circ}$;
Detection levels 6;
Switching segments 268;
Response sensitivity stages 25/50/75/100 \%;
Response brightness stages 1/10/150/250 Lux;
Delay time adjustable approx. $10 \mathrm{sec} .-60 \mathrm{~min}$. ; Step operation $0,3 \mathrm{sec}$.;
Limit shutdown after max. 90 min.;
Operating temperature $-15-+45^{\circ} \mathrm{C}$
Full range of functions only with hand transmitter for BLC IR controller. As-delivered and reset condition: Response sensitivity $100 \%$, time delay 30 s, night mode approx. 1 lx , additional functions OFF.

Switches on for the duration of the motion detector delay time in case minimum response brightness level is infringed and if movement of people is detected.
In conjunction with a BLC relay switch unit HVAC, the HVAC-channel is also switched on for the duration of its delay time independent of response brightness.
Adjustable with hand transmitter for BLC IR controller order no. 2770
For BLC universal touch dimmer order no. 2902
For BLC touch control unit 1-10 V order no. 2903
For BLC touch dimmer LV order no. 2904
For BLC triac switch insert LV order no. 2905
For BLC relay switch insert order no. 2906
For BLC relay switch insert with potential-free
contact order no. 290610
For BLC controller extension unit order no. 2908
For BLC relay switch insert HVAC order no. 2912
For BLC Tronic switch insert order no. 2916
For BLC stair light time switching impulse insert order no. 293410

- with 2 buttons for permanent ON (LED green), permanent OFF (LED red) and automatic
$\square$ with detection and IR receiver LED red, and IR confirmation LED green
$\square$ with crawl-under protection
- $\mu$-processor controlled mode of operation

■ glare-proof e.g. against a torch
■ no switch-on in case of inadvertent brief shadowing

- with adaptive sensitivity adjustment
$■$ switch insert switch-off advance warning ( $3 x$ alternately 0.2 s OFF/ 10 s ON) via remote control
- dimming insert switch-off advance warning (30 s dimming process)
$\square$ switch-on brightness for BLC dimmer insert with hand transmitter and BLC extension unit storable
- angle of detection limiter by means of sensor cutoff via remote control
- Short-time mode with immunity time (e.g. for bell) via remote control
- Hotel mode via remote control: without motion is dimmed to $20 \%$
- test mode via remote control: response sensitivity $100 \%$, time delay 1 s and day mode
■ Presence simulation via remote control: Retrieval of the switching operations from the last 7 days
■ activation by push-button opener in the cable
- with teach function for response brightness

Order no.
Packing
unit


I on page T15
BLC controller 180 comfort with slide switch for off/automatic/on
white, glossy 17878982
polar white, glossy 17878989
polar white, matt 17871909
anthracite, matt 17871606 aluminium, matt 17871404

Nominal mounting height 2,2 m;
Range frontal approx. 12 m ;
Range lateral each approx. 6 m;
At assembly height $1,1 \mathrm{~m}$;
Range frontal approx. 6 m ;
Range lateral each approx. 3 m ;
Detection field semi-oval shaped approx. $12 \times 12 \mathrm{~m}$;
Detection angle $180^{\circ}$;
Detection levels 3;
Switching segments 104;
Response sensitivity programmable
approx. 20 - $100 \%$;
Response brightness adjustable approx. 0-80/ unlimited Lux;
Delay time adjustable approx. $10 \mathrm{sec} .-30 \mathrm{~min}$. ;
Time to dim down 30 sec .;
Step operation $0,5 \mathrm{sec}$.;
Immunity time approx. 3 sec.;
Operating temperature $-20-+45^{\circ} \mathrm{C}$;
Dimensions assembling height $23,5 \mathrm{~mm}$
Switches on for the duration of the delay time set on the controller in case minimum response brightness level is infringed and if movement of people is detected.
In conjunction with a BLC relay switch unit HVAC, the HVAC-channel is also switched on for the duration of its delay time independent of response brightness.

For BLC universal touch dimmer order no. 2902 For BLC touch control unit 1-10 V order no. 2903
For BLC touch dimmer LV order no. 2904
For BLC triac switch insert LV order no. 2905 For BLC relay switch insert order no. 2906 For BLC relay switch insert with potential-free contact order no. 290610
For BLC controller extension unit order no. 2908
For BLC relay switch insert HVAC order no. 2912 For BLC Tronic switch insert order no. 2916
For BLC stair light time switching impulse insert order no. 293410

- $\mu$-processor controlled operation (detection signal evaluation and interference signal suppression)
■ glare-proof e.g. against a torch
- no switch-on in case of inadvertent brief shadowing
- with adaptive sensitivity adjustment
- with teach function for response brightness
- step operation with immunity time (e.g. for bell)
$\square$ switch-on brightness in conjunction with BLC dimmer inserts can only be saved via BLC extension unit
- with dimming function (soft-off) when using BLC dimmer inserts
- activation by push-button opener in the cable

■ with cover to limit detection angle to $90^{\circ}$

Order no.


I on page T34

| Room thermostat with NC contact, centre plate, rocker switch and LED |  |  |
| :---: | :---: | :---: |
| white, glossy | 20308982 | 1 |
| polar white, glossy | 20308989 |  |
| polar white, matt | 20301909 | 1 |
| anthracite, matt | 20301606 | 1 |
| aluminium, matt | 20301404 |  |

$5-30^{\circ} \mathrm{C}, 50 / 60 \mathrm{~Hz}$
Rated voltage 250 V ;
Switching current 10 A ;
Inductive load at $\cos \varphi 0,6$ max. 4 A;
Switching temperature difference approx. $0,5^{\circ} \mathrm{C}$; Night lowering approx. $4^{\circ} \mathrm{C}$

Neutral conductor necessary!
If the pre-set temperature is reached the contact opens.

Replacement centre plate order no. 1671 1...,
167189 .
Suitable valve drive order no. 75900076

- with imprint
- setting knob with temperature range limitation
- with on/off switch and indicator LED for „on"
- with thermal return
- with separate connection for night lowering
- e.g. for valve drives closed in de-energized state
- without spreader claws
- with plug-in terminals


I on page T34
Room thermostat 24 V with NC contact, centre plate, rocker switch and LED
white, glossy $20318982 \quad 1$
polar white, glossy 203189891
polar white, matt
20318989
20311909
20311606
20311404
aluminium, matt
$5-30^{\circ} \mathrm{C}, 50 / 60 \mathrm{~Hz}$
Rated voltage 24 V ;
Switching current 10 A ;
Rated voltage $24 \mathrm{~V}=$;
Switching current $4 \mathrm{~A}=$;
Switching temperature difference approx. $0,5^{\circ} \mathrm{C}$;
Night lowering approx. $4{ }^{\circ} \mathrm{C}$
If the pre-set temperature is reached the contact opens.

Replacement centre plate order no. 1671 1.., 167189 ..
Suitable valve drive order no. 75900077

- with imprint

■ setting knob with temperature range limitation
■ with on/off switch and indicator LED for „on"
■ with thermal return

- with separate connection for night lowering
- e.g. for valve drives closed in de-energized state
- without spreader claws
- with plug-in terminals

Order no.
Packing
unit
Order no.
Packing
unit


Centre plate with setting knob, rocker and lens for room thermostat with NC contact

## white, glossy

16718982
16718989
16711909
polar white, matt
16711606
16711404

Replacement demand for order no. 2030 1.., 203089 8.., 2031 1.., 2031898.
with imprint
■ setting knob with temperature range limitation


I on page T34

Room thermostat with change-over and centre plate white, glossy 20268982 polar white, glossy polar white, matt 20268989 20268989 20261909 20261606 20261404
aluminium, matt
$5-30^{\circ} \mathrm{C}, 50 / 60 \mathrm{~Hz}$
Rated voltage 250 V ;
Switching current „heating" 10 A ;
Switching current „heating" at $\cos \varphi 0.64 \mathrm{~A}$;
Switching current "cooling" 5 A;
Switching current „cooling" at $\cos \varphi 0.62$ A;
Switching temperature difference approx. $0,5^{\circ} \mathrm{C}$
Neutral conductor necessary!
If the pre-set temperature is reached the contact changes.

Replacement centre plate order no. 1670 1.., 167089 ..
Suitable valve drive order no. 75900076

■ with imprint

- setting knob with temperature range limitation
$\square$ for heating or cooling mode
■ e.g. for valve drives closed in de-energized state
■ with thermal return
- without spreader claws

■ with plug-in terminals

## Centre plate with setting knob for room

 thermostat with change-over contactwhite, glossy
16708982
polar white, glossy 16708989
polar white, matt
16701909
16701606
16701404
anthracite, matt
aluminium, matt

Replacement demand for order no. 2026 1.., 2026898.

■ with imprint
■ setting knob with temperature range limitation


Floor thermostat with NO contact, centre plate, rocker switch, 2 LEDs and floor temperature sensor white, glossy 20348982
polar white, glossy 20348989
polar white, matt
I on page T34
anthracite, matt
20341909
20341606
20341404
$10-50^{\circ} \mathrm{C}, 50 / 60 \mathrm{~Hz}$
Rated voltage $250 \mathrm{~V} \sim$;
Switching current 10 A ;
Switching temperature difference approx. $1^{\circ} \mathrm{C}$;
Night lowering approx. $5^{\circ} \mathrm{C}$;
Sensor cable length 4 m
Neutral conductor necessary!
If the temperature falls under the pre-set value the contact closes.

Replacement floor temperature sensor / remote sensor order no. 0161
Replacement centre plate order no. 1672 1.., 167289 ..
Suitable valve drive order no. 75900076

- with imprint
- setting knob with temperature range limitation
- with on/off switch and 2 LEDs
- with LED for heating and LED for night lowering
- with separate connection for night lowering
- e.g. for valve drives closed in de-energized state
- without spreader claws
- with plug-in terminals


Centre plate with setting knob, rocker and lenses for floor temperature thermostat
white, glossy 16728982
polar white, glossy 16728989
polar white, matt 16721909
anthracite, matt 16721606
aluminium, matt
16721404

Replacement demand for order no. 2034 1.., 2034898.

■ with imprint
■ setting knob with temperature range limitation

## Sensor insert

Central plate for sensor insert

| white, glossy | $\mathbf{7 5 9 4 0 4 0 2}$ | 1 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{7 5 9 4 0 4 0 9}$ | 1 |
| polar white, matt/velvety | $\mathbf{7 5 9 4 0 4 8 9}$ | 1 |
| anthracite, matt | $\mathbf{7 5 9 4 0 4 8 5}$ | 1 |
| aluminium, matt | $\mathbf{7 5 9 4 0 4 8 3}$ | 1 |
| stainless steel, $\mathbf{7 5 9 4 0 4 0 3}$ | 1 |  |
| lacquered |  |  |
| light bronze, lacquered | $\mathbf{7 5 9 4 0 4 0 4}$ | 1 |

Attention!
Use only with intermediate ring for central plate from the corresponding range.
Labelling field not usable.
Sensor insert order no. 75941001

- with slots for air circulation
- for e.g. temperature sensor PT100

Order no.
Packing
unit
ROLLOTEC
Comfort buttons


I on page T37

| RolloTec button comfort |  |  |
| :--- | :--- | :--- |
| white, glossy | $\mathbf{1 7 7 0} \mathbf{8 9 8 2}$ | 1 |
| polar white, glossy | $\mathbf{1 7 7 0} \mathbf{8 9} \mathbf{8 9}$ | 1 |
| polar white, matt | $\mathbf{1 7 7 0} \mathbf{1 9 0 9}$ | 1 |
| anthracite, matt | $\mathbf{1 7 7 0} \mathbf{1 6 0 6}$ | 1 |
| aluminium, matt | $\mathbf{1 7 7 0} \mathbf{1 4 0 4}$ | 1 |

Learnable running time 0,5 sec.- 2 min.;
Lamella adjustment with signal < 1 sec.;
Locked for 2 min . upon actuation 1 - 4 Sec .

For RolloTec standard insert without neutral conductor connection order no. 2911 For RolloTec standard insert order no. 2925 For Rollotec comfort insert order no. 2975 For RolloTec comfort insert for direct current drives order no. 297501

- with lock-out protection e.g. for shutter control terrace door
- Activation of the anti-lockout device in the upper end position by touching in the UP direction for
- with indicator LED for lock-out protection



## RolloTec button comfort with sensor connection

| white, glossy | $\mathbf{1 7 7 1 8 9 8 2}$ | 1 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 7 7 1 8 9 8 9}$ | 1 |
| polar white, matt | $\mathbf{1 7 7 1 1 9 0 9}$ | 1 |
| anthracite, matt | $\mathbf{1 7 7 1 1 6 0 6}$ | 1 |
| aluminium, matt | $\mathbf{1 7 7 1 1 4 0 4}$ | 1 |

Brightness value sun approx. 5-80 kLux;
Learnable running time $0,5 \mathrm{sec} .-2 \mathrm{~min}$.;
Lamella adjustment with signal < 1 sec.; Locked for 2 min . upon actuation 1-4 Sec.

For RolloTec brightness sensors order no. 0169, 0184
For RolloTec glass breakage sensor order no. 0170
For RolloTec adapter for sensors order no. 0171
For RolloTec standard insert without neutral
conductor connection order no. 2911
For RolloTec standard insert order no. 2925
For Rollotec comfort insert order no. 2975
For RolloTec comfort insert for direct current drives order no. 297501
For magnetic contact order no. 9251 ..

■ with lock-out protection e.g. for shutter control terrace door
Activation of the anti-lockout device in the upper end position by touching in the UP direction for

- with indicator LED for lock-out protection

■ brightnesses individually adjustable
■ on brightness sensor surface-mounted, the taught-in running time for sun protection movement is used

- no twilight sensor function
$\square$ for sensor connection to socket contact or terminal block

Order no.

## Radio buttons

| *** | RolloTec radio button |
| :---: | :---: |
|  | white, glossy 17588982 |
|  | polar white, glossy 17588989 |
|  | polar white, matt 17581909 |
|  | anthracite, matt 17581606 |
| I on page T37 | aluminium, matt 17581404 |
|  | Radio signal reception frequency $433,42 \mathrm{MHz}$; Learnable radio transmitters 30 ; <br> Lamella adjustment with signal < 1 sec .; Self-sustaining for 2 min . with signal $>1 \mathrm{sec}$. |
|  | For actuation via button and radio transmitter. |
|  | For RolloTec standard insert without neutral conductor connection order no. 2911 <br> For RolloTec standard insert order no. 2925 <br> For Rollotec comfort insert order no. 2975 <br> For RolloTec comfort insert for direct current drives order no. 297501 |
|  | with 5 light scenes for „open/close" <br> retrieving light scenes only by using radio transmitter |



I on page T37
RolloTec radio button with sensor connection

| white, glossy | $\mathbf{1 7 5 9} \mathbf{8 9} \mathbf{8 2}$ | 1 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 7 5 9} \mathbf{8 9} \mathbf{8 9}$ | 1 |
| polar white, matt | $\mathbf{1 7 5 9} \mathbf{1 9 0 9}$ | 1 |
| anthracite, matt | $\mathbf{1 7 5 9 1 6 0 6}$ | 1 |
| aluminium, matt | $\mathbf{1 7 5 9} \mathbf{1 4 0 4}$ | 1 |

Radio signal reception frequency $433,42 \mathrm{MHz}$;

Learnable radio transmitters 30;
Brightness value sun approx. 5-80 kLux;
Lamella adjustment with signal $<1 \mathrm{sec}$.;
Self-sustaining for 2 min . with signal $>1 \mathrm{sec}$.
For actuation via button and radio transmitter.
For RolloTec brightness sensors order no. 0169, 0184
For RolloTec glass breakage sensor order no. 0170
For RolloTec adapter for sensors order no. 0171
For RolloTec standard insert without neutral
conductor connection order no. 2911
For RolloTec standard insert order no. 2925
For Rollotec comfort insert order no. 2975
For RolloTec comfort insert for direct current drives order no. 297501
For magnetic contact order no. 9251 ..

■ with 5 light scenes for „open/close"

- retrieving light scenes only by using radio transmitter
■ brightness value for sunblind individually adjustable
- no twilight sensor function
- for sensor connection to socket contact or terminal block

Order no

Memory buttons


1 on page T37

RolloTec memory button

| white, glossy | $\mathbf{1 7 5 6 8 9 8 2}$ | 1 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 7 5 6 8 9 8 9}$ | 1 |
| polar white, matt | $\mathbf{1 7 5 6 1 9 0 9}$ | 1 |
| anthracite, matt | $\mathbf{1 7 5 6 1 6 0 6}$ | 1 |
| aluminium, matt | $\mathbf{1 7 5 6 1 4 0 4}$ | 1 | Lamella adjustment with signal < 1 sec.; Self-sustaining for 2 min . with signal > 1 sec .; Storage of „up/down" time with signal $>3,5 \mathrm{sec}$

Stored „up" and/or „down" time is run daily in automatic operation.

For manual and timer programmed running of awnings, shutters and blinds.

For RolloTec standard insert without neutral conductor connection order no. 2911 For RolloTec standard insert order no. 2925 For Rollotec comfort insert order no. 2975 For RolloTec comfort insert for direct current drives order no. 297501


## RolloTec memory button

 with sensor connectionwhite, glossy 175789821 polar white, glossy $17578989 \quad 1$ polar white, matt 175719091 anthracite, matt 175716061

17571404

aluminium, matt

Brightness value sun approx. 20 kLux;
Lamella adjustment with signal < 1 sec .;
Self-sustaining for 2 min . with signal $>1 \mathrm{sec}$.;
Storage of "up/down" time with signal $>3,5$ sec.
Stored „up" and/or "down" time is run daily in automatic operation.

For manual and timer programmed running of awnings, shutters and blinds.

For RolloTec brightness sensors order no. 0169, 0184
For RolloTec glass breakage sensor order no. 0170
For RolloTec adapter for sensors order no. 0171
For RolloTec standard insert without neutral
conductor connection order no. 2911
For RolloTec standard insert order no. 2925
For Rollotec comfort insert order no. 2975
For RolloTec comfort insert for direct current drives order no. 297501
For magnetic contact order no. 9251 .

■ no twilight sensor function
$\square$ for sensor connection to socket contact or terminal block

## Timer switches



I on page T37

| RolloTec easy timer with display |  |  |
| :---: | :---: | :---: |
| white, glossy | 17628982 | 1 |
| polar white, glossy | 17628989 | 1 |
| polar white, matt | 17621909 | 1 |
| anthracite, matt | 17621606 |  |
| aluminium, matt | 17621404 | 1 |
| Operation times 2 up/down; <br> Power reserve approx. 6 hrs., maintenance-free; <br> Lamella adjustment with signal < 1 sec.; <br> Self-sustaining for 2 min . with signal $>1 \mathrm{sec}$. |  |  |

No extension units and sensor signals or central commands will be processed.

For manual and timer programmed running of awnings, shutters and blinds.

For RolloTec standard insert without neutral conductor connection order no. 2911 For RolloTec standard insert order no. 2925
For Rollotec comfort insert order no. 2975
For RolloTec comfort insert for direct current drives order no. 297501

- with imprint in German
- with pre-set base programme
- simple programming of operation times

■ with quick programming mode
■ programming possible for up to 6 h after removing insert
■ 2 programme blocks Mon. - Fri. and Sat. - Sun.

- large-area display
- with slide switch for manual/automatic

Order no.
Packing
unit
Order no.


I on page T37

| RolloTec timer comfort with display |  |  |
| :--- | :--- | :--- |
| white, glossy | $\mathbf{1 7 7 4 8 9 8 2}$ | 1 |
| polar white, glossy | $\mathbf{1 7 7 4 8 9 8 9}$ | 1 |
| polar white, matt | $\mathbf{1 7 7 4 1 9 0 9}$ | 1 |
| anthracite, matt | $\mathbf{1 7 7 4 1 6 0 6}$ | 1 |
| aluminium, matt | $\mathbf{1 7 7 4 1 4 0 4}$ | 1 |

Operation times 18 up/down;
Random generator +/- 15 min.;
Power reserve approx. 3 hrs., maintenance-free;
Astronomic time shift $+/-2$ hrs.;
Learnable down time $1 \mathrm{sec} .-6 \mathrm{~min}$.
Lamella adjusting time $0-5$ sec.;
Lamella adjustment with signal < 1 sec.;
Lock at touching > 1 sec .
For manual and timer programmed running of awnings, shutters and blinds.

For RolloTec standard insert without neutral conductor connection order no. 2911
For RolloTec standard insert order no. 2925
For Rollotec comfort insert order no. 2975
For RolloTec comfort insert for direct current drives order no. 297501

- with German display text
- with totally 3 independent programme memories
- 2 programme memories pre-set
- programming according to week and days possible
- programme memory network failure proved
- with automatic summer-/winter time switching (can be switched off)
- astro programme for sunrise/sundown running
- large-area display with symbols
- indication of the next operation schedule under consideration of astro and coincidence function
- with slide switch for manual/automatic
- lock out protection because evaluation of the centre or extension unit commands can be switched off
- lamella position programmable at down operation times


I on page T37

RolloTec timer comfort with display and sensor connection

| white, glossy | $\mathbf{1 7 7 5 8 9 8 2}$ | 1 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 7 7 5 8 9 8 9}$ | 1 |
| polar white, matt | $\mathbf{1 7 7 5 1 9 0 9}$ | 1 |
| anthracite, matt | $\mathbf{1 7 7 5 1 6 0 6}$ | 1 |
| aluminium, matt | $\mathbf{1 7 7 5 1 4 0 4}$ | 1 |

Setting range sun approx. 1-76 kLux;
Setting range twilight approx. 6-300 Lux;
Operation times 18 up/down;
Random generator $+/-15 \mathrm{~min}$.;
Power reserve approx. 3 hrs., maintenance-free;
Astronomic time shift $+/-2$ hrs.;
Learnable down time $1 \mathrm{sec} .-6 \mathrm{~min}$.;
Lamella adjusting time 0-5 sec.;
Lamella adjustment with signal < 1 sec.; Lock at touching > 1 sec .

For manual and timer programmed running of awnings, shutters and blinds.

For RolloTec brightness sensors order no. 0169, 0184 For RolloTec glass breakage sensor order no. 0170
For RolloTec adapter for sensors order no. 0171
For RolloTec standard insert without neutral
conductor connection order no. 2911
For RolloTec standard insert order no. 2925
For Rollotec comfort insert order no. 2975
For RolloTec comfort insert for direct current drives order no. 297501
For magnetic contact order no. 9251 ..

- with German display text
- with totally 3 independent programme memories
- 2 programme memories pre-set
- programming according to week and days possible
- programme memory network failure proved
- with automatic summer-/winter time switching (can be switched off)
- astro programme for sunrise/sundown running
- large-area display with symbols
$\square$ indication of the next operation schedule under consideration of astro and coincidence function
- with slide switch for manual/automatic
- lock out protection because evaluation of the centre or extension unit commands can be switched off
- lamella position programmable at down operation times
- with surface-mounted RolloTec brightness sensor additionally settable with shutter and lamella pos.
- connected RolloTec brightness sensor can be used for twilight-controlled lowering
- con.surface-mounted RolloTec brightness sensor suitable for twilight-controlled raising and lowering
- for the sensor connection on the clamping block in the insert


Order no.


| Docking station |  |  |
| :--- | :--- | :--- |
| polar white, glossy | $\boldsymbol{* 2 8 8 3 8 9 8 9}$ | 1 |
| polar white, matt | $\boldsymbol{* 2 8 8 3 9 9 0 9}$ | 1 |
| stainless steel, $\boldsymbol{* 2 8 8 3 8 9 1 6}$ <br> lacquered  |  | 1 |

$230 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}$
Installation depth 36 mm
Similar to illustration.
For Radio Touch order no. 2880 .
For Radio Touch IP order no. 2881 ..
For speaker order no. 2882 ..
CE
■ with 30pole plug connector for iPod and iPhone*

- buttons for volume control
$\square$ battery charging function for iPod and iPhone*
- AUX input mini stereo jack for audio source (line or headphones output), e.g. MP3 player
- stereo Line-Out for connection to the radio touch
- with screw terminals
* iPod and iPhone are registered trademarks of Apple Inc.


## TV/AUDIO/VIDEO

Multimedia outlets


1 on page T65

## $3 \times$ Cinch/S-Video socket

white, glossy *3315328982 10
polar white, glossy *3315328989 10
polar white, matt *3315321909 10
anthracite, matt *3315321606
aluminium, matt *3315321404


I on page T65


I on page T65

VGA socket
white, glossy *3315408982 10
polar white, glossy *3315408989 10
polar white, matt
anthracite, matt
aluminium, matt * 3315401404
Frequency range video max. 160 MHz ;
Resolution max. $1280 \times 1024$ px
Especially suitable for connecting PCs, notebooks, etc. with display devices such as monitors (including LCD monitors) and projectors.

Installation recommendation:
Company name Kaiser: „Electronic-Dose" for compliance with the permissible bending radii, Art.-No. 1068-02 or 9062-74
Company name Fränkische: „Multimedia-Rohr" for laying pre-assembled connection cable, Art.-No. 294.10.092

Please notice the maximum cable length of the cableand devices manufacturer.

■ S-VGA compatible
$\square$ without spreader claws
■ with 15pole D-subminiature double jack
VGA socket with screw-in lift terminals
polar white, matt *3315411909 10
white, glossy *3315418982 10
polar white, glossy *3315418989 10
anthracite, matt *3315411606 10
aluminium, matt *3315411404 10

Frequency range video max. 160 MHz ;
Resolution max. 1280 x 1024 px;
Conductor cross-section max. $1,5 \mathrm{~mm}^{2}$
Especially suitable for connecting PCs, notebooks, etc. with display devices such as monitors (including LCD monitors) and projectors.

Installation recommendation:
Company name Kaiser: „Electronic-Dose" for compliance with the permissible bending radii, Art.-No. 1068-02 or 9062-74
Company name Fränkische: „Multimedia-Rohr" for laying pre-assembled connection cable, Art.-No. 294.10.092

Please notice the maximum cable length of the cableand devices manufacturer.

■ S-VGA compatible

- without spreader claws
- with 15 pole D-subminiature jack (front)
- with screw-in lift terminals for connection to 15 -core VGA cable

Order no.


1 on page T65

USB/3.5 mm audio socket outlet
white, glossy *33 $15398982 \quad 10$ polar white, glossy *3315398989 10 polar white, matt *33 1539190910 anthracite, matt *3315391606 10 aluminium, matt *3315391404 10

Frequency range audio $20 \mathrm{~Hz}-20 \mathrm{KHz}$; Transmission rate (USB) max. $480 \mathrm{MBit} / \mathrm{s}$

Especially suitable for connecting mobile devices, such as mobile phones or MP3 players (mini audio), digital cameras and computer peripherals (USB 2.0).

Installation recommendation:
Company name Kaiser: „Electronic-Dose" for compliance with the permissible bending radii, Art.-No. 1068-02 or 9062-74
Company name Fränkische: „Multimedia-Rohr" for laying pre-assembled connection cable, Art.-No. 294.10.092

Please notice the maximum cable length of the cableand devices manufacturer.

■ without spreader claws
■ USB double jack type A, USB 2.0 capable
■ double jack gold-plated 3.5 mm , stereo


| High definition socket outlet |  |  |
| :---: | :---: | :---: |
| white, glossy | *3315428982 | 10 |
| polar white, glossy | *3315428989 | 10 |
| polar white, matt | *3315421909 | 10 |
| anthracite, matt | *3315421606 | 10 |
| aluminium, matt | *3315421404 | 10 |

Video bandwidth max. 165 MHz ;
Resolution max. 1080p (1920 x 1080 px );
Frequency range (vertical) $50-85 \mathrm{~Hz}$;
Transmission rate max. $8,16 \mathrm{GBit} / \mathrm{s}$
Especially suitable for connecting digital high-end entertainment electronics devices for transmission of high-resolution audio and video signals, such as satellite receivers and DVD players, to LCD or plasma screens.

Installation recommendation:
Company name Kaiser: „Electronic-Dose" for compliance with the permissible bending radii, Art.-No. 1068-02 or 9062-74 Company name Fränkische: „Multimedia-Rohr" for laying pre-assembled connection cable, Art.-No. 294.10.092

Please notice the maximum cable length of the cableand devices manufacturer.

- gold-plated contacts
- without spreader claws

■ with $\mathrm{HDMI}^{T M}$ double jack type A , supports $\mathrm{HDMI}^{\text {TM }}$ technology (V 1.3 with Deep Color)


High definition socket with $90^{\circ}$ plug connection
white, glossy *3315438982 10
polar white, glossy *3315438989 10
polar white, matt *3315431909 10
anthracite, matt *3315431606 10
aluminium, matt *3315431404 10

Video bandwidth max. 165 MHz;
Resolution max. 1080p ( $1920 \times 1080 \mathrm{px}$ );
Frequency range (vertical) $50-85 \mathrm{~Hz}$;
Transmission rate max. 8,16 GBit/s
Especially suitable for connecting digital high-end entertainment electronics devices for transmission of high-resolution audio and video signals, such as satellite receivers and DVD players, to LCD or plasma screens.

Installation recommendation:
Company name Kaiser: „Electronic-Dose" for compliance with the permissible bending radii, Art.-No. 1068-02 or 9062-74
Company name Fränkische: „Multimedia-Rohr" for laying pre-assembled connection cable, Art.-No. 294.10.092

Please notice the maximum cable length of the cableand devices manufacturer.

- gold-plated contacts
- jack on rear, angled $90^{\circ}$
- without spreader claws
- with $\mathrm{HDMI}^{T M}$ double jack type A, supports $\mathrm{HDMI}^{\text {TM }}$ technology (V 1.3 with Deep Color)

Audio outlets


| Central plate for XLR round connectors <br> D series |  |  |
| :--- | :--- | :--- |
| white, glossy <br> polar white, glossy | $\mathbf{1 4 1 2 0 2}$ | 10 |
| polar white, matt/velvety | $\mathbf{1 4 1 2} \mathbf{0 9}$ | 10 |
| 1419 09 | 10 |  |
| anthracite, matt | $\mathbf{1 4 1 2} \mathbf{1 6 0 6}$ | 10 |
| aluminium, matt | $\mathbf{1 4 1 2} \mathbf{1 4 0 4}$ | 10 |

Cut-out diameter 23,6 mm
Distance between screws (horizontal/vertical)
19 / 24 mm
For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.

Attention!
Use only with intermediate ring for central plate from the corresponding range.

Circular plug-in connector:
Cannon;
Deltron;
Farnell;
Hirose;
Monacor;
Neutrik;
RS Components

- with supporting plate
- speakon and jack connector
- without spreader claws

Order no.
Packing
Order no.
unit

| Centre plate for loudspeaker socket outlet <br> and miniature connector insert <br> white, glossy, 1gang, 1 <br> knock out opening | 11968982 | 10 |
| :--- | ---: | ---: |
| polar white, glossy, <br> 1gang, 1 knock out <br> opening <br> polar white, matt, 1gang, <br> 1 knock out opening | $\mathbf{1 1 9 6 8 9 8 9} 1909$ | 10 |
| anthracite, matt, 1gang, <br> 1 knock out opening <br> aluminium, matt, 1gang, <br> 1 knock out opening | $\mathbf{1 1 9 6 1 6 0 6 1 4 0 4}$ | 10 |

For miniature connector insert order no. 4505
For stereo loudspeaker socket outlet order no. 450501
For loudspeaker socket outlet High End order no. 450502
For BNC/TNC connector insert order no. 4577, 4579

| $\bigcirc$ | $\bigcirc$ | Centre plate for aerial socket 1-hole |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | polar white, matt | 14991909 | 10 |
|  |  | white, glossy | 14998982 | 10 |
|  |  | polar white, glossy | 14998989 | 10 |
|  |  | anthracite, matt | 14991606 | 10 |
|  |  | aluminium, matt | 14991404 | 10 |


|  | Centre plate for aerial socket 2- and 3-hole |  |  |
| :---: | :---: | :---: | :---: |
|  | white, glossy | 12038982 | 10 |
| 0 | polar white, glossy | 12038989 | 10 |
|  | polar white, matt | 12031909 | 10 |
|  | anthracite, matt | 12031606 | 10 |
|  | aluminium, matt | 12031404 | 10 |

For aerial socket 2-hole single box order no. 4502
For aerial socket 2-hole throughpass socket order no. 4515
For aerial socket 3-hole single box order no. 4522
For aerial socket 3-hole throughpass socket order
no. 4523, 4593
with knock out SAT input


Aerial sockets:
Ankaro;
Astro;
Axing;
Delta;
Schwaiger
■ with 2 additional SAT outputs (F-sockets)


| Central plate for aerial socket 4-hole |  |  |
| :--- | :--- | :--- |
| white, glossy | $\mathbf{1 4 8 3} \mathbf{0 2}$ | 10 |
| polar white, glossy | $\mathbf{1 4 8 3 0 9}$ | 10 |
| polar white, matt/velvety | $\mathbf{1 4 8 3} \mathbf{1 9} \mathbf{0 9}$ | 10 |
| anthracite, matt | $\mathbf{1 4 8 3 \mathbf { 1 6 } \mathbf { 0 6 }}$ | 10 |
| aluminium, matt | $\mathbf{1 4 8 3 \mathbf { 1 4 } \mathbf { 0 4 }}$ | 10 |
| brown | $\mathbf{1 4 8 3 0 1}$ | 10 |
| stainless steel, | $\mathbf{1 4 8 3 0 4}$ | 10 |
| lacquered |  |  |
| light bronze, lacquered | $\mathbf{1 4 8 3 \mathbf { 1 1 }}$ | 10 |

Attention!
Use only with intermediate ring for central plate from the corresponding range.

Aerial sockets:
Hirschmann
$■$ with 2 additional SAT outputs (F-sockets)


## Central plate for broadband modem box

| white, glossy | $\mathbf{1 4 3 9 0 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 4 3 9 0 9}$ | 10 |
| polar white, matt/velvety | $\mathbf{1 4 3 9 1 9 0 9}$ | 10 |
| anthracite, matt | $\mathbf{1 4 3 9 \mathbf { 1 6 0 6 }}$ | 10 |
| aluminium, matt | $\mathbf{1 4 3 9 \mathbf { 1 4 0 4 }}$ | 10 |

## Attention!

Use only with intermediate ring for central plate from the corresponding range.

Broadband modem socket:
Wisi
■ with additional multimedia output

Order no
Order no.


| Centre plate for TAE socket outlet and loudspeaker connection box |  |  |
| :---: | :---: | :---: |
| white, glossy | 10338912 | 10 |
| polar white, glossy | 10338919 | 10 |
| polar white, matt, with 2 break out openings | 10331909 | 10 |
| anthracite, matt, with 2 break out openings | 10331606 | 10 |
| aluminium, matt, with 2 break out openings | 10331404 | 10 |

For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.
For USB charging socket 230 V order no. 2600 .. For loudspeaker connection box order no. 4572 .., 4573 ..
For USB data interface flush-mounted order no. 75040004

EAD socket outlets:
Drivex;
Fröhlich + Walter;
Intracom;
TAE and FCC overvoltage protection sockets:
Dehn;
FCC socket outlets
Dätwyler;
Rutenbeck

## Labelling fields

Labelling field for flush installation in intermediate ring for central plate
white, glossy 19050002 polar white, glossy 19050069 stainless steel, 19057004
stainless steel, 19057004
lacquered
11098982
polar white, glossy 1109898910
polar white, matt $11091909 \quad 10$
anthracite, matt 11091606
aluminium, matt 11091404

Labelling field height arranged for 6 mm P-touch strips.

## DATA COMMUNIGATIONS/TELECOMMUNICATIONS

|  | Centre plate for cable outlet <br> and VDo connection box |  |  |
| :--- | :--- | :--- | :---: |
| white, glossy | $\mathbf{1 0 1 9} \mathbf{8 9} \mathbf{8 2}$ | 10 |  |
| polar white, glossy | $\mathbf{1 0 1 9} \mathbf{8 9} \mathbf{8 9}$ | 10 |  |
| polar white, matt | $\mathbf{1 0 1 9} \mathbf{1 9} \mathbf{0 9}$ | 10 |  |
| anthracite, matt | $\mathbf{1 0 1 9} \mathbf{1 6} \mathbf{0 6}$ | 10 |  |
| aluminium, matt | $\mathbf{1 0 1 9} \mathbf{1 4 0 4}$ | 10 |  |

For cable outlet order no. 4468, 4470

VDo connector boxes:
Komos;
Rutenbeck;
Telena
■ with an outlet below

| Central plate for TAE socket outlet 6/6FF |  |  |
| :--- | :---: | ---: |
| and 6/6NF and loudspeaker connection box |  |  |
| white, glossy | $\mathbf{1 4 5 8} \mathbf{0 2}$ | 10 |
| polar white, glossy | $\mathbf{1 4 5 8} \mathbf{0 9}$ | 10 |
| brown, glossy | $\mathbf{1 4 5 8 0 1}$ | 10 |

Attention!
Use only with intermediate ring for central plate from the corresponding range.
For USB charging socket 230 V order no. 26000 ..
For loudspeaker connection box order no. 4572 .., 4573 ..
For USB data interface flush-mounted order
no. 75040004
EAD socket outlets:
Drivex;
Fröhlich + Walter;
Intracom;
TAE and FCC overvoltage protection sockets:
Dehn;
FCC socket outlets:
Dätwyler;
Rutenbeck
■ for USB data interface flush-mounted


## Centre plate for PTT socket outlet „Netherlands"

polar white glossy $6110368989 \quad 10$
ar white, glossy 6110368989
poar mat 6110361909
pown 611036190910
$6110361606 \quad 10$
611036140410

■ universal for standard commercially available PTT socket outlets

Order no.
Packing
unit

| Centre plate for RTT socket outlet „Belgium" |  |  |
| :--- | ---: | ---: |
| white, glossy | $\mathbf{6 7 1 1 0 3 \mathbf { 8 9 } \mathbf { 8 2 }}$ | 10 |
| polar white, glossy | $\mathbf{6 7 1 1 0 3 \mathbf { 8 9 } \mathbf { 8 9 }}$ | 10 |
| polar white, matt | $\mathbf{6 7 1 1 0 3 1 9 0 9}$ | 10 |
| anthracite, matt | $\mathbf{6 7 1 1 0 3 1 6 \mathbf { 0 6 }}$ | 10 |
| aluminium, matt | $\mathbf{6 7 1 1 0 3 1 4 0 4}$ | 10 |



Centre plate for FCC socket outlet

| white, glossy | $\mathbf{1 4 0 7 8 9 8 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 4 0 7 8 9 8 9}$ | 10 |
| polar white, matt | $\mathbf{1 4 0 7 1 9 0 9}$ | 10 |
| anthracite, matt | $\mathbf{1 4 0 7} \mathbf{1 6 \mathbf { 0 6 }}$ | 10 |
| aluminium, matt | $\mathbf{1 4 0 7 \mathbf { 1 4 } \mathbf { 0 4 }}$ | 10 |

For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.
For FCC socket outlet order no. 4538, 4568
For FCC socket outlet shielded order no. 4554, 4586
FCC socket outlets:
AMP;
Brand-Rex;
BTR;
Crack-IT;
Rutenbeck;
Telegärtner;
Telena

- with $45^{\circ}$ oblique outlet
$\square$ for 1 gang socket outlet cat.3, cat.5e and cat. 6


| Centre plate for FCC/E-DAT design/Telekom |  |  |
| :--- | :--- | ---: |
| ISDN socket outlet |  |  |
| white, glossy | $\mathbf{1 4 0 9 \mathbf { 8 9 ~ 8 2 }}$ | 10 |
| polar white, glossy | $\mathbf{1 4 0 9 \mathbf { 8 9 } \mathbf { 8 9 }}$ | 10 |
| polar white, matt | $\mathbf{1 4 0 9} \mathbf{1 9 0 9}$ | 10 |
| anthracite, matt | $\mathbf{1 4 0 9} \mathbf{1 6 0 6}$ | 10 |
| aluminium, matt | $\mathbf{1 4 0 9} \mathbf{1 4 0 4}$ | 10 |

For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.
For FCC socket outlet order no. 4539, 4562, 4592
For FCC socket outlet shielded order no. 4555, 4587
ISDN socket outlets (Rutenbeck):
Telekom;
FCC socket outlets:
AMP;
Brand-Rex
BTR;
CobiNet;
Corning;
Dätwyler;
EFB Electronic;
Elmat/Süveg (STL-Gruppe);
Komos;
Leoni Kerpen;
Rutenbeck;
Setec;
Telegärtner

- with $45^{\circ}$ oblique outlet
- for 2 gang socket outlet cat. 3 , cat. 5 e and cat. 6

Order no.
Packing


| Central plate for $\mathbf{3}$ MINI-COM modules |  |  |
| :--- | :--- | :--- |
| white, glossy | $\mathbf{1 4 2 7} \mathbf{0 2}$ | 10 |
| polar white, glossy | $\mathbf{1 4 2 7} \mathbf{0 9}$ | 10 |
| polar white, matt/velvety | $\mathbf{1 4 2 7} \mathbf{1 9} \mathbf{0 9}$ | 10 |
| anthracite, matt | $\mathbf{1 4 2 7} \mathbf{1 6} \mathbf{0 6}$ | 10 |
| aluminium, matt | $\mathbf{1 4 2 7} \mathbf{1 4 0 4}$ | 10 |

For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.

## Attention!

Use only with intermediate ring for central plate from the corresponding range.
For mini jack order no. 1980, 1984, 1985
For cinch module set order no. 1989
For blank module order no. 1990
For video cinch module order no. 1992
For S-Video module order no. 1993
For VGA module order no. 1994

## Modules:

Panduit

- with supporting plate

■ for Mini-Com jacks cat.3, cat.5e, cat.6, cat. 6 10Gig

- for Mini-Com fibre-optic modules
- for Mini-Com BNC connector modules

■ for Mini-Com 3.5 mm stereo connection/coupling modules

- for mini-com speaker wire/banana plug modules
- for Mini-Com F-plug coupling modules
- for Mini-Com Cinch connection/coupling modules

■ for Mini-Com S-Video connection/coupling modules

- for Mini-Com D-Subminiature connectors 15pole
- for Mini-Com dummy modules 1 gang

■ with $30^{\circ}$ oblique outlet

- without spreader claws


Central plate for 1 or 2 single modules Reichle\&De-Massari

| white, glossy | $\mathbf{1 4 7 2 \mathbf { 0 2 }}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 4 7 2 \mathbf { 0 9 }}$ | 10 |
| polar white, matt/velvety | $\mathbf{1 4 7 2 \mathbf { 1 9 } \mathbf { 0 9 }}$ | 10 |
| anthracite, matt | $\mathbf{1 4 7 2 \mathbf { 1 6 0 6 }}$ | 10 |
| aluminium, matt | $\mathbf{1 4 7 2 \mathbf { 1 4 } \mathbf { 0 4 }}$ | $\mathbf{1 0}$ |

For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.

## Attention!

Use only with intermediate ring for central plate from the corresponding range.

## Modules:

Reichle\&De-Massari

- with supporting plate
- for connecting modules RJ45 cat.5e and cat. 6
$\square$ for fibre-optic modules
- with $30^{\circ}$ oblique outlet
- without spreader claws

Order no
Order no.
Packing
unit
unit


| Central plate for double modules |  |
| :--- | :--- |
| Reichle\&De-Massari |  |
| white, glossy | 146102 |
| polar white, glossy | 146109 |
| polar white, matt/velvety | 14611909 |

For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue

Attention!
Use only with intermediate ring for central plate from the corresponding range.

Modules:
Diamond;
Reichle\&De-Massari
■ with supporting plate

- for connecting modules RJ45 cat.5e and cat. 6
$\square$ for fibre-optic modules
- with $30^{\circ}$ oblique outlet

■ without spreader claws


Central plate for AMP modular jacks

| white, glossy | $\mathbf{1 4 6 3 0 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 4 6 3 0 9}$ | 10 |
| polar white, matt/velvety | $\mathbf{1 4 6 3 1 9 0 9}$ | 10 |
| anthracite, matt | $\mathbf{1 4 6 3 \mathbf { 1 6 0 6 }}$ | 10 |
| aluminium, matt | $\mathbf{1 4 6 3 \mathbf { 1 4 0 4 }}$ | 10 |

Indexing dimension (W x H) approx. $14,7 \times 20,7 \mathrm{~mm}$
Shielded versions touch each other.
For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.

Attention!
Use only with intermediate ring for central plate from the corresponding range.

MT-RJ jack:
AMP;
Intracom;
Telena;
Modular jacks:
CobiNet;
EFB Electronic;
Schumann;
Standard 110 Connect jack:
AMP;
SL series toolless jack:
AMP;
SL series 110 Connect Jack:
AMP;
SL series toolless jack with dust protection:
AMP
■ with supporting plate

- for AMP modular jacks series 110 Connect cat.3, cat.5, cat.5e and cat. 6
■ for AMP fibre-optic couplings MT-RJ jacks
■ 2gang, with $30^{\circ}$ oblique outlet
■ without spreader claws


Central plate for Krone modular jacks
white, glossy 14640210
polar white, glossy 14640910
polar white, matt/velvety 1464190910
anthracite, matt 14641606
aluminium, matt 1464140410

Indexing dimension (W x H) approx. 14,7 x 19,4 mm
For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.

Attention!
Use only with intermediate ring for central plate from the corresponding range.

Modular jacks:
3M;
Asyco;
Dätwyler;
Erni;
Harting;
Hubbell;
ICS;
Krone;
Leoni Kerpen;
Nexans;
Setec;
Telegärtner;
Thomas \& Betts

- with supporting plate

■ for Krone modular jacks cat.5, cat.5e and cat. 6
■ for Krone fibre-optic couplings MT-RJ jacks
■ for 3M fibre-optic couplings Volition

- 2 gang, with $30^{\circ}$ oblique outlet

■ without spreader claws


Centre plate with dust protection slider and labelling field
polar white, matt 1170190910
anthracite, matt 11701606
aluminium, matt 11701404

Labelling field height arranged for 6 mm P-touch strips.
For supporting plate 1 gang order no. 4540 ..

■ for supporting plates with coloured mount 1gang


Centre plate with dust protection sliders and labelling field
white, glossy 1181898210
polar white, glossy 1181898910
polar white, matt 1181190910
anthracite, matt 11811606
aluminium, matt 11811404

Labelling field height arranged for 6 mm P-touch strips.
For supporting plate 2gang order no. 4541 ..

- for supporting plates with coloured mounts 2gang

Order no.
Order no.
Packing
unit

| Central plate for AMP-ACO |  |  |  |
| :--- | :--- | :--- | :--- |
| white, glossy | $\mathbf{1 4 9 4} \mathbf{0 2}$ | 10 |  |
| polar white, glossy | $\mathbf{1 4 9 4 0 9}$ | 10 |  |
| polar white, matt/velvety | $\mathbf{1 4 9 4} \mathbf{1 9} \mathbf{0 9}$ | 10 |  |
| anthracite, matt | $\mathbf{1 4 9 4} \mathbf{1 6 0 6}$ | 10 |  |
| aluminium, matt | $\mathbf{1 4 9 4} \mathbf{1 4 0 4}$ | 10 |  |

For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.

Attention!
Use only with intermediate ring for central plate from the corresponding range.
Labelling field not usable.
ACO and CO Plus inserts:
AMP, order no. 0-1394580-1, 2-1394580-1,
0-0336627-1, 2-0336627-1, 0-0336627-3
■ cat. 5 , cat. 6 and cat. 7

- central plates plug-in fixing


Central plate for AMP-ACO with labelling field

| white, glossy | $\mathbf{1 4 9 5 0 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 4 9 5 0 9}$ | 10 |
| polar white, matt/velvety | $\mathbf{1 4 9 5 \mathbf { 1 9 } \mathbf { 0 9 }}$ | 10 |
| anthracite, matt | $\mathbf{1 4 9 5 \mathbf { 1 6 0 6 }}$ | 10 |
| aluminium, matt | $\mathbf{1 4 9 5 \mathbf { 1 4 0 4 }}$ | 10 |

For detailed information on relevant articles of the listed manufacturers please see Berker Online Catalogue.

Labelling field height arranged for 6 mm P-touch strips.

## Attention!

Use only with intermediate ring for central plate from the corresponding range.

ACO and CO Plus inserts:
AMP, order no. 0-0336627-1, 2-0336627-1,
0-0336627-3
■ cat. 5 , cat. 6 and cat. 7


Centre plate for AMP-ACO and Siemens SML cabling system with labelling field

| polar white, matt | $\mathbf{1 1 5 3 1 9 0 9}$ | 10 |
| :--- | :--- | :--- |
| anthracite, matt | $\mathbf{1 1 5 3 1 6 0 6}$ | 10 |
| aluminium, matt | $\mathbf{1 1 5 3 1 4 0 4}$ | 10 |

For detailed information on relevant articles of the listed manufacturers please see Berker Online Catalogue.

Labelling field height arranged for 6 mm P-touch strips.

ACO and CO Plus inserts:
AMP, order no. 0-1394582-1, 0-1394763-1,
2-1394582-1;
Schumann;
Telena;
SML inserts:
Siemens
■ with supporting plate

- cat. 5 , cat. 6 and cat. 7
- with $30^{\circ}$ oblique outlet
$\square$ for screw cover
- without spreader claws


Central plate for fibre-optic couplings Simplex ST

| white, glossy | $\mathbf{1 4 9 2 0 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 4 9 2 0 9}$ | 10 |
| polar white, matt/velvety | $\mathbf{1 4 9 2} \mathbf{1 9} \mathbf{0 9}$ | 10 |

For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.

Attention!
Use only with intermediate ring for central plate from the corresponding range.

Fibre-optic couplings:
Ackermann;
AMP;
Brand-Rex;
BTR;
CobiNet;
Corning;
Diamond;
Drahtex;
Huber+Suhner;
Quante;
Telegärtner
■ with supporting plate

- with $30^{\circ}$ oblique outlet
- for 2 fibre-optic couplings
- without spreader claws

Order no.
Packing
unit

| Central plate for fibre-optic couplings <br> Duplex SC |  |  |
| :--- | :--- | :--- |
| white, glossy | $\mathbf{1 4 8 0} \mathbf{0 2}$ | 10 |
| polar white, glossy | $\mathbf{1 4 8 0} \mathbf{0 9}$ | 10 |
| polar white, matt/velvety | $\mathbf{1 4 8 0} \mathbf{1 9} \mathbf{0 9}$ | 10 |

For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.

Attention!
Use only with intermediate ring for central plate from the corresponding range.

Fibre-optic couplings:
Ackermann;
AMP;
Brand-Rex;
BTR;
CobiNet;
Corning;
Diamond;
Drahtex;
FiberCraft;
Huber+Suhner;
Krone;
Quante;
Telegärtner
■ with supporting plate
■ with $30^{\circ}$ oblique outlet

- 1 knock out opening

■ for 1 or 2 fibre-optic couplings
■ without spreader claws


| Central plate for | D-subminiature connector |  |
| :--- | :---: | :---: |
| white, glossy | $\mathbf{1 4 1 1 0 2}$ | 10 |
| polar white, glossy | $\mathbf{1 4 1 1 0 9}$ | 10 |
| polar white, matt/velvety | $\mathbf{1 4 1 1} \mathbf{1 9 0 9}$ | 10 |
|  |  |  |
| D-subminiature connectors see module inserts. |  |  |

Attention!
Use only with intermediate ring for central plate from the corresponding range
For D-subminiature connector order no. 1834, 1835, 1839
For mounting adapter order no. 1841, 1842

■ with supporting plate
■ without spreader claws


| Central plate for 2 | D-subminiature connector |  |
| :--- | :---: | :---: |
| white, glossy | $\mathbf{1 4 7 0} \mathbf{0 2}$ | 10 |
| polar white, glossy | $\mathbf{1 4 7 0} \mathbf{0 9}$ | 10 |
| polar white, matt/velvety | $\mathbf{1 4 7 0 1 9 0 9}$ | 10 |
|  |  |  |
| D-subminiature connectors see module inserts. |  |  |

Attention!
Use only with intermediate ring for central plate from the corresponding range.
Labelling field not usable.
For D-subminiature connector order no. 1834, 1835, 1839
For mounting adapter order no. 1841, 1842

- with supporting plate
- without spreader claws

Order no.

## COMMUNICATION TECHNICS

Data connector housings


Labelling field height arranged for 6 mm P-touch strips.
Mounting plates see acessories order no. 1111 .., 1112 ..

■ with supporting plate

- for mounting plates

■ without spreader claws

## SIGNALLING AND COMMAND UNITS



Central plate for transmitting and control device $\varnothing 18.8 \mathrm{~mm}$
white, glossy 14310210
polar white, glossy 14310910
polar white, matt/velvety 1431190910
anthracite, matt 14311606
aluminium, matt 1431140410
stainless steel, 143104 lacquered

Screw distance 36 mm

For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.

Attention!
Use only with intermediate ring for central plate from the corresponding range.
Suitable for installation of equipotential bonding built-in socket order no. 4604

Circular plug-in connector:
Amphenol-Tuchel;
Binder;
Cannon;
Farnell;
Hirose;
Hirschmann;
Lumberg;
Monacor;
RS Components;
Signalling and command units:
Lumitas;
Schlegel;
Extra low voltage jack:
PRO-CAR
■ with supporting plate
■ with cut-out dia. 18.8 mm
■ without spreader claws

Order no.
Packing
Order no.
unit


| Centre plate for signalling |  |
| :--- | ---: |
| and control device $\varnothing 18.8 \mathrm{~mm}$ |  |
| polar white, matt | \#1063 1909 |
| anthracite, matt | $\# 10631606$ |
| aluminium, matt | $\# 10631404$ |

anthracite, matt \#1063 1606
aluminium, matt
10
Screw distance 36 mm

Suitable for installation of equipotential bonding
built-in socket order no. 4604
Circular plug-in connector:
Amphenol-Tuchel;
Binder;
Cannon;
Farnell;
Hirose;
Hirschmann;
Lumberg;
Monacor;
RS Components;
Signalling and command units:
Lumitas;
Schlegel;
Extra low voltage jack:
PRO-CAR
$\square$ with supporting plate
■ with cut-out dia. 18.8 mm

- without spreader claws


Central plate for signalling
and control device Ø 22.5 mm

| white, glossy | $\mathbf{1 4 3 2 \mathbf { 0 2 }}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 4 3 2 \mathbf { 0 9 }}$ | 10 |
| yellow, glossy | $\mathbf{1 4 3 2 \mathbf { 0 7 }}$ | 10 |
| polar white, matt/velvety | $\mathbf{1 4 3 2 \mathbf { 1 9 0 9 }}$ | 10 |
| anthracite, matt | $\mathbf{1 4 3 2 \mathbf { 1 6 0 6 }}$ | 10 |
| aluminium, matt | $\mathbf{1 4 3 2 \mathbf { 1 4 0 4 }}$ | 10 |
| stainless steel, | $\mathbf{1 4 3 2 \mathbf { 0 4 }}$ | 10 |

lacquered
Screw distance 36 mm
For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.

## Attention!

Use only with intermediate ring for central plate from the corresponding range.

Signalling and command units:
Kraus-Naimer;
Lumitas;
Schlegel;
Overvoltage protection devices:
Dehn, order no. NM DK 280;
OBO-Bettermann, order no. KNS/IS-D
■ with supporting plate

- with cut-out dia. 22.5 mm
- without spreader claws


| Centre plate for signalling and control device Ø 22.5 mm |  |  |
| :---: | :---: | :---: |
| polar white, matt | \#1062 1909 | 10 |
| anthracite, matt | \#1062 1606 | 10 |
| aluminium, matt | \#1062 1404 | 10 |
| yellow, matt | \#1062 1907 | 10 |
| Screw distance 36 mm |  |  |

Signalling and command units:
Kraus-Naimer;
Lumitas;
Schlegel;
Overvoltage protection devices:
Dehn, order no. NM DK 280;
OBO-Bettermann, order no. KNS/IS-D

- with supporting plate
- with cut-out dia. 22.5 mm
$\square$ without spreader claws


## HOSPITAL INSTALLATION



Central plate for double pole socket outlet for floating output

| white, glossy | $\mathbf{1 4 0 3 0 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 4 0 3 0 9}$ | 10 |
| polar white, matt/velvety | $\mathbf{1 4 0 3 \mathbf { 1 9 0 9 }}$ | 10 |
| anthracite, matt | $\mathbf{1 4 0 3 \mathbf { 1 6 0 6 }}$ | 10 |
| aluminium, matt | $\mathbf{1 4 0 3 \mathbf { 1 4 0 4 }}$ | 10 |

Attention!
Use only with intermediate ring for central plate from the corresponding range.
For double pole socket outlet for floating output order no. 1061

For double pole socket outlet according to DIN 42801

- with imprint


Central plate for 6pole socket outlet

| white, glossy | $\mathbf{1 4 7 4 0 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 4 7 4 0 9}$ | 10 |
| polar white, matt/velvety | $\mathbf{1 4 7 4 \mathbf { 1 9 } \mathbf { 0 9 }}$ | 10 |
| anthracite, matt | $\mathbf{1 4 7 4 \mathbf { 1 6 0 6 }}$ | 10 |
| aluminium, matt | $\mathbf{1 4 7 4 \mathbf { 1 4 0 4 }}$ | 10 |
| stainless steel, | $\mathbf{1 4 7 4 \mathbf { 0 4 }}$ | 10 |
| lacquered |  |  |

## Attention!

Use only with intermediate ring for central plate from the corresponding range.

Nurse call system:
Ackermann, clino opt 99, order no. 71008C3;
Nurse call systems:
Ackermann, clino opt 90, clino phon 95, order no. 71008C;
Siedle, order no. AD 306-0;
6 pole socket outlets:
Hirschmann, Medu 600, Medu 600 GSK

Order no.
Packing
Order no.
Packing
unit

| Centre plate with red call button <br> and 2 plug-in openings <br> white, glossy |  |  |  |
| :--- | :--- | :--- | :--- |
|  | polar white, glossy | 12188982 |  |
|  | 12188989 | 10 |  |
| polar white, matt | 12189909 | 10 |  |

Nurse call system:
Ackermann, clino opt 90, 99 / clino phon 95,
order no. 72642B;
Nurse call systems:
Ackermann, clino opt 90, 99 / clino phon 95,
order no. 72642C, 72639A, 71197A
■ centre plate plug-in fixing
Centre plate for databus connection unit with plug-in opening

| white, glossy | $\mathbf{1 2 9 8 8 9 8 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 2 9 8 8 9 8 9}$ | 10 |
| polar white, matt | $\mathbf{1 2 9 8 9 9 0 9}$ | 10 |

Nurse call system:
Ackermann, clino opt 99, order no. 73070A
■ centre plate plug-in fixing
Centre plate for plug-and-socket connector

| white, glossy | $\mathbf{1 3 0 5} \mathbf{8 9 8 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 3 0 5 8 9 8 9}$ | 10 |
| polar white, matt | $\mathbf{1 3 0 5 9 9 0 9}$ | 10 |

Nurse call system:
Ackermann, clino opt 99, order no. 74189A
■ a-coded for dropping plug-and-socket connector
■ centre plate plug-in fixing

## Centre plate with 2 plug-in openings

 and imprintwhite, glossy
12448982
10
polar white, glossy 1244898910
polar white, matt
12449909

| Centre plate for databus termination splitter/ <br> empty unit |  |  |
| :--- | ---: | ---: |
| white, glossy | $\mathbf{1 2 0 4 8 9 8 2}$ | 10 |
| polar white, glossy | $\mathbf{1 2 0 4 8 9 8 9}$ | 10 |
| polar white, matt | $\mathbf{1 2 0 4 9 9 0 9}$ | 10 |

$$
\square
$$

Nurse call system:
Ackermann, clino opt 99, order no. 73071D,
73071D2, 73075B, 73073D
$\square$ for call push-button with diagnostic and auxiliary plug-in contact

- for call module with call push-button and plug-in contacts
■ button with lens
- with imprint
- centre plate plug-in fixing


| Centre plate with red call push-button at top |  |  |
| :--- | :---: | ---: |
| white, glossy | $\mathbf{1 2 1 6 8 9 8 2}$ | 10 |
| polar white, glossy | $\mathbf{1 2 1 6 8 9 8 9}$ | 10 |
| polar white, matt | $\mathbf{1 2 1 6 9 9 0 9}$ | 10 |

## Nurse call system:

Ackermann, clino opt 99, order no. 73071F, 73071F2, 73073F

- for call module with call push-button

■ button with lens
■ centre plate plug-in fixing


Centre plate with red call push-button at bottom

| white, glossy | $\mathbf{1 2 1 9} \mathbf{8 9} \mathbf{8 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 2 1 9} \mathbf{8 9} 89$ | 10 |
| polar white, matt | $\mathbf{1 2 1 9} 99 \mathbf{0 9}$ | 10 |

Nurse call system:
Ackermann, clino opt 99, order no. 73022A, 73022A2
■ for call push-button

- button with lens

■ centre plate plug-in fixing
Centre plate with green shut-off button

| white, glossy | $\mathbf{1 2 5 1 \mathbf { 8 9 } \mathbf { 8 2 }}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 2 5 1 \mathbf { 8 9 } \mathbf { 8 9 }}$ | 10 |
| polar white, matt | $\mathbf{1 2 5 1 9 9 \mathbf { 0 9 }}$ | 10 |

Ackermann, clino opt 99, order no. 73075C, 73020G, 73021G, 73075D

- for call unit with 2 diagnostic plug-in contacts

■ centre plate plug-in fixing

## Centre plate with red call push-button

at top and a plug-in opening

| white, glossy | $\mathbf{1 2 1 7} \mathbf{8 9} \mathbf{8 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 2 1 7 8 9 8 9}$ | 10 |
| polar white, matt | $\mathbf{1 2 1 7 9 9 \mathbf { 0 9 }}$ | 10 |

Nurse call system:
Ackermann, clino opt 99, order no. 73071E
73071E2, 73075A, 73073E
■ for call push-button with plug-in contact
$\square$ for call module with call push-button and monitored auxiliary plug-in contact
■ button with lens
■ centre plate plug-in fixing

Order no.
Packing
Order no.
unit

| Centre plate with yellow shut-off button |  |  |
| :--- | :---: | :--- |
| white, glossy | $\mathbf{1 2 5 2 8 9 8 2}$ | 10 |
| polar white, glossy | $\mathbf{1 2 5 2 8 9 8 9}$ | 10 |
| polar white, matt | $\mathbf{1 2 5 2 9 9 0 9}$ | 10 |

Nurse call system:
Ackermann, clino opt 99, order no. 73642D

- for shut-off push-button
- button with lens
- centre plate plug-in fixing


| Centre plate for call unit <br> with blue doctor call button |  |  |
| :--- | :--- | :--- |
| white, glossy | $\mathbf{1 2 2 3 8 9 8 2}$ | 10 |
| polar white, glossy | $\mathbf{1 2 2 3 8 9 8 9}$ | 10 |
| polar white, matt | $\mathbf{1 2 2 3 9 9 0 9}$ | 10 |

Nurse call system:
Ackermann, clino opt 99, order no. 73022A, 73022A2

- for call push-button
- button with lens
- with imprint
- centre plate plug-in fixing

|  | Centre plate with acknowledge button white |  |  |
| :--- | :--- | :--- | :--- |
|  | white, glossy | $\mathbf{1 3 0 8 \mathbf { 8 9 } \mathbf { 8 2 }}$ | 10 |
| polar white, glossy | $\mathbf{1 3 0 8 \mathbf { 8 9 } \mathbf { 8 9 }}$ | 10 |  |
| polar white, matt | $\mathbf{1 3 0 8 9 9 0 9}$ | 10 |  |

Nurse call system:
Ackermann, clino opt 99, order no. 73640J, 73640J2

- for office unit
- button with lens

■ with imprint „SU-AUS WARTEN"

- centre plate plug-in fixing


| Centre plate with red call button |  |  |
| :--- | :--- | :--- |
| and green shut-off button |  |  |
| white, glossy | $\mathbf{1 2 4 9} \mathbf{8 9 8 2}$ |  |
| polar white, glossy | $\mathbf{1 2 4 9} \mathbf{8 9 8 9}$ | 10 |
| polar white, matt | $\mathbf{1 2 4 9} 99 \mathbf{0 9}$ | 10 |

Nurse call system:
Ackermann, clino opt 99, order no. 73642B2

- for call push-button and shut-off push-button
- buttons with lens
- centre plate plug-in fixing


| Centre plate with green and yellow <br> shut-off button |  |  |
| :--- | :--- | :--- |
| white, glossy | $\mathbf{1 2 5 3} \mathbf{8 9 8 2}$ | 10 |
| polar white, glossy | $\mathbf{1 2 5 3} \mathbf{8 9 8 9}$ | 10 |
| polar white, matt | $\mathbf{1 2 5 3 9 9} \mathbf{9 9}$ | 10 |

## Nurse call system:

Ackermann, clino opt 99, order no. 73642E

- for shut-off push-button
- buttons with lens
- centre plate plug-in fixing

| suas | Centre plate with green presence button/white acknowledge button |  |  |
| :---: | :---: | :---: | :---: |
|  | white, glossy polar white, glossy polar white, matt | $\begin{aligned} & 12998982 \\ & 12998989 \end{aligned}$ | $\begin{aligned} & 10 \\ & 10 \end{aligned}$ |
|  |  |  |  |
|  |  | 12999909 | 10 |
|  | Nurse call system: |  |  |
|  | Ackermann, clino opt 99, order no. 73642B |  |  |
|  | $\square$ for office unit |  |  |
|  | - buttons with lens |  |  |
|  | - with imprint „SU-AUS WARTEN" |  |  |
| - | Centre plate for pneumatic call switch with lens |  |  |
|  | white, glossy | 12368982 | 10 |
|  | polar white, glossy | 12368989 | 10 |
|  | polar white, matt | 12369909 | 10 |

Nurse call system:
Ackermann, clino opt 99, order no. 70006C;
Nurse call systems:
Ackermann, clino opt 90, 99 / clino phon 95,
order no. 70006A, 70006B

- centre plate plug-in fixing


Centre plate for pullcord push-button with lens

| white, glossy | $\mathbf{1 2 3 3 8 9 8 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 2 3 3 8 9 8 9}$ | 10 |
| polar white, matt | $\mathbf{1 2 3 3 9 9 0 9}$ | 10 |

Nurse call systems:
Ackermann, clino opt 90, 99 / clino phon 95, order no. 70045A3, 70046A3, 70046A
■ for pullcord push-button with pullcord and knob

- centre plate plug-in fixing


Centre plate for radio programme system with small sound system

| white, glossy | $\mathbf{1 3 0 0 8 9 8 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 3 0 0 \mathbf { 8 9 8 9 }}$ | 10 |
| polar white, matt | $\mathbf{1 3 0 0} \mathbf{9 9 0 9}$ | 10 |

Nurse call systems:
Ackermann, clino opt 90, 99 / clino phon 95,
order no. $73120 \mathrm{C}, 73120 \mathrm{H}$

- for earpiece and volume control
- with imprinted symbol curve
- centre plate plug-in fixing


Centre plate for radio programme selector switch

| white, glossy | $\mathbf{1 3 0 1 8 9 8 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 3 0 1 8 9 8 9}$ | 10 |
| polar white, matt | $\mathbf{1 3 0 1 9 9 0 9}$ | 10 |

Order no.
Packing
Order no.
Packing
unit
Messrs. Total Walther (Zettler)

| Centre plate for 15pole socket outlet |  |  |
| :--- | :---: | :--- |
| white, glossy | $\mathbf{1 2 8 8 \mathbf { 8 9 } \mathbf { 2 2 }}$ | 10 |
| polar white, glossy | $\mathbf{1 2 8 8 \mathbf { 8 9 } \mathbf { 2 9 }}$ | 10 |
| polar white, matt | $\mathbf{1 2 8 8 1 9 \mathbf { 2 9 }}$ | 10 |

Nurse call systems:
Total Walther, Zettler Medicall 800, order no. 125.891xS, 125.850xS

- for pear push-button, diagnostic units etc.

■ centre plate plug-in fixing
Centre plate for call push-button/shut-off push-button with 15 pole socket outlet

| white, glossy | $\mathbf{1 2 8 8} \mathbf{8 9} \mathbf{3 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 2 8 8} \mathbf{8 9} \mathbf{3 9}$ | 10 |
| polar white, matt | $\mathbf{1 2 8 8 \mathbf { 1 9 } 3 9}$ | 10 |

Nurse call systems:
Total Walther, Zettler Medicall 800, order no. $125.840 x S, 125.841 x S, 125.842 x S, 125.843 x S$
$\square$ for pear push-button, diagnostic units etc.
■ centre plate plug-in fixing
Centre plate for call/service/cancel/doctor call push-button with 15pole socket outlet

| white, glossy | $\mathbf{1 2 8 8} \mathbf{8 9} \mathbf{4 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 2 8 8 \mathbf { 8 9 } 4 9}$ | 10 |
| polar white, matt | $\mathbf{1 2 8 8 1 9 4 9}$ | 10 |

Nurse call systems:
Total Walther, Zettler Medicall 800, order no. 125.830xS, 125.831xS, 125.832xS
$\square$ for pear push-button, diagnostic units etc.
■ centre plate plug-in fixing


| Centre plate for presence push-butto/cancel |  |  |
| :--- | :--- | :--- |
| push-button/personnel call push-button call/ |  |  |
| service call and doctor call push-button |  |  |
| white, glossy | $\mathbf{1 2 8 8} \mathbf{8 9} \mathbf{8 2}$ | 10 |
| polar white, glossy | $\mathbf{1 2 8 8 8 9 8 9}$ | 10 |
| polar white, matt | $\mathbf{1 2 8 8 1 9 0 9}$ | 10 |

## Nurse call systems:

Total Walther, Zettler Medicall 800, order no. $125.810 x S, 125.811 x S, 125.812 x S, 125.813 x S$, $125.814 x \mathrm{~S}, 125.815 x \mathrm{~S}, 125.816 x \mathrm{~S}, 125.892 x \mathrm{~S}$, 125.893xS

■ centre plate plug-in fixing

| Centre plate for presence push-button, <br> call/presence push-button call shut-off <br> push-button etc. |  |  |
| :--- | :--- | :--- |
| white, glossy | $\mathbf{1 2 8 8 8 9 1 2}$ | 10 |
| polar white, glossy | $\mathbf{1 2 8 8 8 9 1 9}$ | 10 |
| polar white, matt | $\mathbf{1 2 8 8 1 9 1 9}$ | 10 |

Nurse call systems:
Total Walther, Zettler Medicall 800, order no. 125.892xS, 125.893xS, 125.820xS, 125.821xS, $125.822 x \mathrm{x}, 125.823 x \mathrm{~S}, 125.824 x \mathrm{~S}, 125.825 x \mathrm{~S}$, $125.826 x S, 125.827 x S, 125.891 x S$
■ centre plate plug-in fixing
Centre plate for pneumatic call switch with quiet lamp

| white, glossy | $\mathbf{1 2 8 8} \mathbf{8 9} \mathbf{5 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 2 8 8} \mathbf{8 9} \mathbf{5 9}$ | 10 |
| polar white, matt | $\mathbf{1 2 8 8 1 9 5 9}$ | 10 |

Nurse call systems:
Total Walther, Zettler Medicall 800, order no. 125.860xS, 125.861xS

- centre plate plug-in fixing

Centre plate for buzzer
polar white, matt 12881969
10

Nurse call systems:
Total Walther, Zettler Medicall 800 IP, order no. 125.800xS
■ centre plate plug-in fixing

## Berker Q. 1

## Standard range, flush-mounted system

With its unmistakable features, the Berker Q. 1 will inspire and excite all those who are searching for a range of switches with a wide range of applications. It features a unique velvety surface made of polar white plastic. Its pleasing shape and soft, rounded contours are like love at first sight.

- Suitable for residential and functional buildings
- Combination frames allow you to combine up to 5 devices vertically or horizontally
- Available surface: polar white, velvety

Marked items are suitable for splash-protected flush-mounted IP44 installation when used in cojunction with the corresponding sealing set.

## DESIGN PLUS

reddot design award winner 2009


| Frames | 161 | Universal series touch dimmers | 173 |
| :---: | :---: | :---: | :---: |
| Sealings IP44 | 162-163 | Berker Light Control | 173-178 |
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Diverse functionality and labelling Berker Q. 1

Berker Q. 1 integrates seamlessly into Berker's modular product concept. With its wide range of functions and design elements, Berker Q. 1 offers an impressive depth of product variety. The design components with large 58mm centre plate dimension are fitting on the various module inserts of the Berker standard range. Furthermore innovative product solutions have been realised, which feature flexible labelling options and unobtrusive symbols, quicker the installation and surpass the depth of variety of the Q. 1 product line.

- Frame with labelling field in the variants 1gang to 5 gang in vertical or horizontal design

■ Rocker with imprint "Light", "Bell" or "Door" symbol

- Rocker with lens and imprint "Light" symbol or labeling field with "Bell" symbol


Special socket outlets in white with coloured stripe and imprint "EDV" (red), "SV" (green) or "ZSV" (orange)


■ BLC controller with enclosed sealing set for degree of protection IP44

Order no.
Packing
Order no.
Packing
unit

## FRAMES



I on page T69
3gang
polar white, velvety, 10146089
4gang
polar white, velvety, 10156089
5 gang
IP44 protection when using a sealing set order no. 1010 7..
■ for vertical and horizontal mounting


I on page T69

## Frame

| red, velvety, 1gang | $\mathbf{1 0 1 1 6 0 6 2}$ | 10 |
| :--- | :--- | ---: |
| red, velvety, 2gang | $\mathbf{1 0 1 2} \mathbf{6 0 6 2}$ | 10 |
| red, velvety, 3gang | $\mathbf{1 0 1 3 6 0 6 2}$ | 2 |
| red, velvety, 4gang | $\mathbf{1 0 1 4 6 0 6 2}$ | 2 |
| red, velvety, 5gang | $\mathbf{1 0 1 5} \mathbf{6 0 6 2}$ | 2 |

IP44 protection when using a sealing set order no. 10107.
$\square$ for vertical and horizontal mounting

- for emphasising special switches, socket outlets, etc.


Contrast frame 1gang
anthracite, velvety 10116045
10
More versions available upon request!
IP44 protection when using a sealing set order no. 10107.

1) on page T69

Barrier-free building based on DIN 18025
■ for barrier-free construction


## Frame with labelling field

polar white, velvety
10116019
1gang
polar white, velvety,
1012601910

2gang vertical
polar white, velvety,
3gang vertical
polar white, velvety,
4gang vertical
polar white, velvety, 5 gang vertical polar white, velvety,

1013601910 2gang horizontal polar white, velvety,
$10146019 \quad 2$
101560192
$10226019 \quad 10$ 3 gang horizontal polar white, velvety, 4gang horizontal polar white, velvety,

10256019
5gang horizontal
Labelling field height arranged for 6 mm P-touch strips.
IP44 protection when using a sealing set order no. 10107.

## FRAME WITH LARGE CUT-OUT



Frame with large cut-out
polar white, velvety 13096089
For push-button 3gang with RTR order no. 75663729
For push-button 5gang with RTR order no. 75665729
I on page T69
$■$ for vertical mounting

SURFACE-MOUNTED FRAMES


Surface-mounted frame 1gang

| red, glossy | 10290062 | 10 |
| :---: | :---: | :---: |
| black, glossy | 10290065 | 10 |
| white, glossy | 10290002 | 10 |
| polar white, glossy | 10290069 | 10 |
| brown, glossy | 10290001 | 10 |
| stainless steel, lacquered | 10299004 | 10 |
| light bronze, lacquered | 10299011 | 10 |

Installation depth $33,5 \mathrm{~mm}$
For suitable tube-entries and replacement for cable and duct entries refer to the dry surface-mounted range.
Flush-mounted devices can be used with surfacemounted frames for surface-mounted installation.

Self-extinguishing base plate see module inserts / accessories order no. 102112

- with cable and duct entry

■ entry at top and bottom possible

## Surface-mounted frame 2gang

red glossy 10300062
white, glossy 10300002
polar white, glossy 10300069
brown, glossy 10300001
stainless steel, 10309004 lacquered

10309011
light bronze, lacquered 1
For suitable tube-entries and replacement for cable and duct entries refer to the dry surface-mounted range.
Flush-mounted devices can be used with surfacemounted frames for surface-mounted installation.

Self-extinguishing base plate see module inserts / accessories order no. 102122
$\square$ with cable and duct entry
$\square$ entry at top, bottom and $2 \times$ each side possible
■ for vertical and horizontal mounting

|  | Surface-mounted frame 3gang |  |  |
| :---: | :---: | :---: | :---: |
|  | red, glossy | 10310062 | 5 |
|  | white, glossy | 10310002 | 5 |
|  | polar white, glossy | 10310069 | 5 |
|  | brown, glossy | 10310001 | 5 |
|  | stainless steel, lacquered | 10319004 | 5 |
|  | light bronze, lacquered | 10319011 | 5 |
|  | Installation depth 33,5 mm |  |  |

Installation depth 33,5 mm
For suitable tube-entries and replacement for cable and duct entries refer to the dry surface-mounted range.
Flush-mounted devices can be used with surfacemounted frames for surface-mounted installation.

Self-extinguishing base plate see module inserts / accessories order no. 102132

■ with cable and duct entry

- entry at top, bottom and at each side in the middle possible
■ for vertical and horizontal mounting



## Application

IP44 protection is reached by using the sealing set and installing

- in flush-mounted wall box according to DIN 49073 part 1

■ on smooth, even, vertically walls

- in finery-concisely inserted flush mounted wall boxes

IP44 protection is not guaranteed for floor assembly, ceiling mounting and assembly in hollow wall boxes.

## Attention

IP44 protection is reached only if all installed articles are IP44 suitable (check markings) and the installation instruction is observed.

SEALINGS IP44
Sealings

## Sealing set K. 1/K. 5/Q. 1 for socket outlets and centre plates <br> transparent <br> 10107200 <br> 1

For blind plug with centre plate and screw fixing order no. 100960 79, 10457.
For blind plug with centre plate order no. 100960 89, 10457 .., 67104570 .., 6710096089
For centre plate with rotary knob for rotary switch for shutters order no. 107771 .., 10806089
For centre plate with rotary knob for 3-step switch order no. 108460 89, 1087 7.., 1088 7.., 10966089 For centre plate with setting knob for rotary dimmer order no. 11357 .., 11376089
For centre plate with setting knob for speed controller order no. 1135 7.., 11376079
For centre plate for pilot lamp E14 order no. 1167 7.., 11986089
For SCHUKO socket outlet with hinged cover order no. 475172 .
For SCHUKO socket outlet with hinged cover and labelling field order no. 475272 ..

- for socket outlets with self-closing hinged covers
- for 3-step switches
- for rotary switch for shutters
- for pilot lamp E14
- for rotary dimmer, rotary dimmer LV and Tronic rotary dimmer
- for universal rotary dimmer and universal rotary dimmer extension unit
- for speed controllers

Sealing set K. 1/K. 5/Q. 1 for rocker switch/ rocker push-button
transparent 10107100 1

For rocker order no. 14057 .., 16206089
For rocker with imprinted symbol arrows order no. 1405 7.., 16206079
For rocker with 5 lenses attached order no. 141570 .. For rocker with 5 lenses attached and labelling field order no. 141571 ..
For rocker with red lens and imprint „0" order no. 1417 7..
For rocker with imprint „0" order no. 1425 7.., 16226089
For rocker with red lens and imprint
„Heizung Notschalter" order no. 14887115
For rocker with 5 lenses attached and large labelling field order no. 1496.
For rocker with imprinted symbol light order no. 16206049
For rocker with imprinted symbol bell order no. 16206059
For rocker with imprinted symbol door order no. 16206069
For rocker with orange lens and imprint
„Heizung Notschalter" order no. 16216069
For rocker with 2 lenses attached and imprinted symbol light order no. 16216079
For rocker with 2 lenses attached order
no. 16216089
For rocker with orange lens and imprint „0" order no. 16246089
For rocker with labelling field order no. 16266089
For rocker with 2 lenses attached and labelling field order no. 162860 ..
For rocker with orange lens and touchable symbol light order no. 16516049
For rocker with orange lens and touchable symbol bell order no. 16516059
For rocker with orange lens and touchable symbol door order no. 16516069
For rocker with 2 lenses attached and guide for mouth-held rod order no. 16616049
For rocker with 2 lenses attached and large labelling field order no. 1696 .

- with IP44 fixing piece to screw on
$\square$ for rocker switches change-over, intermediate, 2pole on/off 10 AX
- for rocker push-buttons
- for push-button BCU 1gang and group push-button BCU 1gang


| Sealing set K. 1/K. 5/Q. 1 for key switch/key |
| :--- |
| push-button |
| transparent |$\quad 10107000$

For centre plate for key switch/push-button for shutters order no. 1504 7.., 15066089
For centre plate for key switch/push-button order no. 1505 7.., 15076089

- for key switches/key push-buttons for profile half cylinders with additional earth contact
■ for key switches/key push-buttons for shutters for profile half cylind. with additional earth cont.

Order no.


I on page T6
orange, velvety
polar white, velvety, enhanced contact protection IEC 60884-1
16 A, 250 V~
The insert of the red, green and orange socket outlets is colour-coded.

Connection terminals IEC 60884-1
■ with plug-in terminals


Ion page T6
SCHUKO socket outlet for installation in hollow walls
polar white, velvety \#47436059 10
polar white, velvety, \#47236059 10
enhanced contact
protection IEC 60884-1
$16 \mathrm{~A}, 250 \mathrm{~V} \sim$
Connection terminals IEC 60884-1
■ without spreader claws

- with plug-in terminals


1 on page T6

## SCHUKO socket outlet

| polar white, velvety | $\mathbf{4 1 4 3 6 0 8 9}$ | 10 |
| :--- | :--- | :--- |
| red, velvety | $\mathbf{4 1 4 3 \mathbf { 6 0 1 2 }}$ | 10 |
| green, velvety | $\mathbf{4 1 4 3 \mathbf { 6 0 1 3 }}$ | 10 |
| orange, velvety | $\mathbf{4 1 4 3 \mathbf { 6 0 1 4 }}$ | 10 |
| polar white, velvety, | $\mathbf{4 1 2 3 6 0 8 9}$ | 10 |
| enhanced contact |  |  |
| protection IEC 60884-1 |  |  |

$16 \mathrm{~A}, 250 \mathrm{~V} \sim$
The insert of the red, green and orange socket outlets is colour-coded.

■ with screw-in lift terminals


1 on page T 6


I on page T6


1 on page T6


1) on page T6 .元

| SCHUKO socket outlet with imprint |  |  |
| :---: | :---: | :---: |
| polar white, velvety, with imprint „EDV" in black | 47436009 | 10 |
| polar white, velvety, with imprint „EDV" in red | 47436079 | 10 |
| polar white, velvety, with imprint „SV" in green | 47436039 | 10 |
| polar white, velvety, with imprint „ZSV" in orange | 47436049 | 10 |
| red, velvety, with imprint „EDV" | 47436022 | 10 |
| green, velvety, with imprint „SV" | 47436003 | 10 |
| orange, velvety, with imprint „ZSV" | 47436007 | 10 |
| $16 \mathrm{~A}, 250 \mathrm{~V} \sim$ |  |  |
| Insert colour-coded. |  |  |
| Connection terminals IEC 60884-1 |  |  |

SCHUKO socket outlet $45^{\circ}$
polar white, velvety 472760891
$16 \mathrm{~A}, 250 \mathrm{~V} \sim$
Specially suited for combining several socket outlets
if right angle plugs are used.
Connection terminals IEC 60884-1

- for diagonal installation

■ with plug-in terminals
SCHUKO socket outlet with labelling field polar white, velvety $\quad 4750608910$ red, velvety $\quad 47506002$ 10 green, velvety $\quad 47506003$ 47506007
47496089
orange, velvety 4750600710
polar white, velvety, 4749608910 enhanced contact protection IEC 60884-1
16 A, 250 V~
The insert of the red, green and orange socket outlets is colour-coded.

Labelling field height arranged for 6 mm P-touch strips.

Connection terminals IEC 60884-1

- with plug-in terminals

SCHUKO socket outlet with labelling field
polar white, velvety, 41496089 enhanced contact protection IEC 60884-1
$16 \mathrm{~A}, 250 \mathrm{~V} \sim$
Labelling field height arranged for 6 mm P-touch strips.

Connection terminals IEC 60884-1
■ with screw-in lift terminals

SCHUKO socket outlet with labelling field and imprint
red, velvety,
4750601510 with imprint „EDV" green, velvety,

47506013
with imprint "SV"
orange, velvety,
47506014
10 with imprint „ZSV"
$16 \mathrm{~A}, 250 \mathrm{~V} \sim$
Labelling field height arranged for 6 mm P-touch strips.

Insert is colour-coded.

Connection terminals IEC 60884-1
■ with plug-in terminals

Order no.
Packing
unit
Order no.


I on page T6

SCHUKO socket outlet indicator lamp and imprint
green, velvety, 41246003 with imprint „SV"
orange, velvety,
41246007
10 with imprint , ZSV"
$16 \mathrm{~A}, 250 \mathrm{~V} \sim$
Neon lamp current 1,5 mA
Insert colour-coded.
Replacement neon lamp unit see module inserts / accessories order no. 1609

Execution SV, ZSV to VDE 0100-710
Connection terminals IEC 60884-1
$\square$ with neon lamp unit

- with screw-in lift terminals


1 on page T6

## SCHUKO socket outlet

with indicator lamp and labelling field
polar white, velvety 41596089
10
$16 \mathrm{~A}, 250 \mathrm{~V} \sim$
Neon lamp current 1,5 mA
Labelling field height arranged for 6 mm P-touch strips.
Replacement neon lamp unit see module inserts / accessories order no. 1609

Connection terminals IEC 60884-1

- with neon lamp unit
$\square$ with screw-in lift terminals


SCHUKO socket outlet with indicator lamp, labelling field and imprint

| green, velvety, with <br> imprint „SV" | $\mathbf{4 1 5 9 6 0 1 3}$ | 10 |
| :--- | :--- | :--- |
| orange, velvety, with | $\mathbf{4 1 5 9 6 0 1 4}$ | 10 |

orange, velvety, with 41596014
10

1 on page T6
imprint „ZSV"
$16 \mathrm{~A}, 250 \mathrm{~V} \sim$
Neon lamp current 1,5 mA
Labelling field height arranged for 6 mm P-touch strips.
Insert is colour-coded.
Replacement neon lamp unit see module inserts / accessories order no. 1609

Execution SV, ZSV to VDE 0100-710
Connection terminals IEC 60884-1

- with neon lamp unit

■ with screw-in lift terminals

## SCHUKO-socket outlets with safety device



I on page T33

SCHUKO socket outlet with overvoltage protection and labelling field

| polar white, velvety | $\mathbf{4 1 0 8 6 0 8 9}$ | 1 |
| :--- | :--- | :--- |
| red, velvety | $\mathbf{4 1 0 8 6 0 6 2}$ | 1 |

red, velvety 41086062
$16 \mathrm{~A}, 250 \mathrm{~V}$, 50/60 Hz
Labelling field height arranged for 6 mm P-touch strips.
Overvoltage protection to EN 61643
and VDE 0675-6, -11
Connection terminals IEC 60884-1

- with imprint

■ with indicator LED for „on/error"

- with acoustic fault signal

■ with screw terminals


SCHUKO socket outlet with RCD protection switch
polar white, velvety, 47086089
1
enhanced contact protection IEC 60884-1
$16 \mathrm{~A}, 250 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}$
I on page T60 Rated fault current 30 mA ;
Switch off time <= 30 ms ;
Short-circuit resistance 3 kA (with pre-fuse 20 AgL );
Surge current firmness 250 A (8/20) $\mu \mathrm{s}$
Through-wired socket outlets are also protected.
Suitable for use according to DIN VDE 0100-410
Tested conform VDE 0664 (EN 61008)
Connection terminals IEC 60884-1
to protect connected and downstream loads - with plug-in terminals

## SCHUKO-socket outlets



I on page T6
polar white, velvety, w
imprint „SV" in green
polar white, velvety, with 4751604910
imprint "ZSV" in orange
16 A, 250 V~

Connection terminals IEC 60884-1
$\square$ with hinged cover that falls back

- with plug-in terminals


SCHUKO socket outlet with hinged cover
polar white, velvety, 4751607910 enhanced contact protection IEC 60884-1
16 A, 250 V~
1 on page T6
Connection terminals IEC 60884-1

- with imprint
- with hinged cover that falls back
- with plug-in terminals


SCHUKO socket outlet with hinged cover polar white, velvety, 4751608910 enhanced contact protection IEC 60884-1
$16 \mathrm{~A}, 250 \mathrm{~V} \sim$
I on page T6

## no. 10107200

Connection terminals IEC 60884-1
$\square$ with imprint
$\square$ with self-closing hinged covers
■ with plug-in terminals

Order no.
Order no.
Packing
unit


1 on page T6 Specially suited for combining several socket outlets if right angle plugs are used.

Connection terminals IEC 60884-1
■ with imprint

- mounting orientation of insert selectable in $45^{\circ}$ steps
$\square$ with hinged cover that falls back
■ with plug-in terminals


1 on page T6
SCHUKO socket outlet with hinged cover and labelling field
polar white, velvety,
47466089
enhanced contact
protection IEC 60884-1
$16 \mathrm{~A}, 250 \mathrm{~V} \sim$
Specially suited for combining several socket outlets if right angle plugs are used.

Labelling field height arranged for 6 mm P-touch strips.

Connection terminals IEC 60884-1
■ with imprint

- mounting orientation of insert selectable in $45^{\circ}$ steps
- with hinged cover that falls back

■ with plug-in terminals


1 on page T6
SCHUKO socket outlet with hinged cover and labelling field and enhanced contact protection
polar white, velvety, with 4752608910
imprint
polar white, velvety, with 4752605910 imprint „EDV" in red
polar white, velvety, with 4752603910
imprint „SV" in green
polar white, velvety, with 4752604910
imprint ,ZSV" in orange
$16 \mathrm{~A}, 250 \mathrm{~V} \sim$
Labelling field height arranged for 6 mm P-touch strips.

IP44 protection when using sealing set order no. 10107200

Connection terminals IEC 60884-1
$\square$ with self-closing hinged covers
■ with plug-in terminals


Order no.
Packing
unit
Order no.
Packing
unit


Socket outlet without earth contact polar white, velvety $\quad 6161036089$ 10
16 A, 250 V~
Mirror depth 8 mm

I on page T6
Connection terminals IEC 60884-1
$■$ 2pole
$■$ with screw terminals

## Socket outlets with earth pin



I on page T6

## Socket outlet with earth pin

| polar white, velvety, enhanced contact protection IEC 60884-1 | 6768766089 | 10 |
| :---: | :---: | :---: |
| red, velvety, enhanced contact protection IEC 60884-1 | 6768766012 | 10 |
| green, velvety, enhanced contact protection IEC 60884-1 | 6768766013 | 10 |
| orange, velvety, enhanced contact protection IEC 60884-1 | 6768766014 | 10 |

Connection terminals IEC 60884-1

- 2pole + earth
$\square$ with plug-in terminals


Socket outlet with earth pin and hinged cover polar white, velvety, 676877608910 enhanced contact
protection IEC 60884-1
$16 \mathrm{~A}, 250 \mathrm{~V} \sim$
1 on page T6
Connection terminals IEC 60884-1

- with imprint
- 2pole + earth

■ with hinged cover that falls back

- with plug-in terminals

NEMA socket outlets


Socket outlet with earth contact, USA/CANADA, NEMA 5-15 R
polar white, velvety 41666089
10
$15 \mathrm{~A}, 125 \mathrm{~V} \sim$
Not UL-certified.
Equates to standard NEMA 5-15 R

- 2pole + earth
- without spreader claws
- with screw terminals

for rocker switches change-over, intermediate

■ for push-button BCU 1gang and group push-button BCU 1gang

- with imprint
- 2pole + earth
- with hinged cover that falls back
- with screw-in lift terminals


1 on page T6
Socket outlet with earth pin
polar white, velvety, 6765766089
enhanced contact protection IEC 60884-1
red, velvety, enhanced
6765766012
contact protection IEC
60884-1
green, velvety,
6765766013
enhanced contact
protection IEC 60884-1
orange, velvety,
6765766014
enhanced contact protection IEC 60884-1
$16 \mathrm{~A}, 250 \mathrm{~V} \sim$

## Connection terminals IEC 60884-1

- 2pole + earth
with screw-in lift terminals


Socket outlet with earth pin and hinged cover
polar white, velvety,
6765836089
enhanced contact
protection IEC 60884-1
$16 \mathrm{~A}, 250 \mathrm{~V} \sim$


## Socket outlet with earth contact,

 USA/CANADA, NEMA 5-20 Rpolar white, velvety $\quad 41686089$
10
$20 \mathrm{~A}, 125 \mathrm{~V}$
Not UL-certified.
Equates to standard NEMA 5-20 R

- 2pole + earth
- without spreader claws
$\square$ with screw terminals


## COVERS SWITCHES/PUSH-BUTTONS

Rockers

| $\checkmark$ | Rocker |  |  |
| :---: | :---: | :---: | :---: |
|  | IP44 protection when using sealing set order no. 10107100 |  |  |
|  | - for rocker switch <br> - for rocker push- <br> ■ for push-button <br> BCU 1gang | ange-over, in s 1gang and gr |  |

Order no.

| Theray | Rocker with orange lens and „Heizung Notschalter" imprint polar white, velvety $16216069$ |
| :---: | :---: |
|  | Or use glass pane protected heating emergency switch from programme ranges Arsys, flush-mounted splash-protected IP44, Aquatec IP44. |
|  | Not suitable for heating systems $>50 \mathrm{~kW}$. IP44 protection when using neon lamp unit order no. 1675 .. and sealing set order no. 10107100 |
|  | for rocker switches change-over, intermediate <br> for rocker push-buttons <br> for push-button BCU 1gang and group push-button <br> BCU 1gang <br> for monitoring circuit |

■ for rocker switches change-over, intermediate
■ for rocker push-buttons
■ for push-button BCU 1gang and group push-button BCU 1gang

Rocker with labelling field
polar white, velvety 16266089 10

Labelling field height arranged for 6 mm P-touch strips for labelling with names, notes etc.
IP44 protection when using sealing set order no. 10107100

- for rocker switches change-over, intermediate

■ for rocker push-buttons

- for push-button BCU 1gang and group push-button BCU 1gang

Rocker with 2 lenses attached
polar white, velvety $1621 \mathbf{6 0 8 9} 10$ Lenses in orange and clear attached.
IP44 protection when using neon lamp unit order
no. 1675 .. and sealing set order no. 10107100

■ for rocker switches change-over, intermediate
■ for rocker push-buttons
■ for illumination and monitoring circuit

- for push-button BCU 1gang and group push-button BCU 1gang

Rocker with 2 lenses attached and imprinted symbol light polar white, velvety 16216079

Lenses in orange and clear attached.
IP44 protection when using neon lamp unit order no. 1675 .. and sealing set order no. 10107100

■ for rocker switches change-over, intermediate
■ for rocker push-buttons

- for illumination and monitoring circuit
- for push-button BCU 1gang and group push-button BCU 1gang

Rocker with 2 lenses attached and labelling field
polar white, velvety 16286089
10
Labelling field height arranged for 6 mm P-touch
strips for labelling with names, notes etc.

Lenses in orange and clear attached.
IP44 protection when using neon lamp unit order no. 1675 .. and sealing set order no. 10107100

- for rocker switches change-over, intermediate
- for rocker push-buttons

■ for push-button BCU 1gang and group push-button BCU 1gang
■ for illumination and monitoring circuit
Rocker with 2 lenses attached and labelling field with imprinted symbol bell polar white, velvety $\quad 16286079$ 10

Labelling field height arranged for 6 mm P-touch strips for labelling with names, notes etc.

Lenses in orange and clear attached.
IP44 protection when using neon lamp unit order
no. 1675 .. and sealing set order no. 10107100

- for rocker switches change-over, intermediate
- for rocker push-buttons
- for push-button BCU 1gang and group push-button BCU 1gang
■ for illumination and monitoring circuit

Order no.


Rocker with 2 lenses attached and large labelling field polar white, velvety 16966089
Labelling field ( $w \times h$ ) approx. $54,8 \times 42,8 \mathrm{~mm}$
For labelling with names, notes etc.
Labelling field height arranged for two 18 mm P-touch strips.

Lenses in orange and clear attached. IP44 protection when using neon lamp unit order no. 1675 .. and sealing set order no. 10107100

- for rocker switches change-over, intermediate
- for rocker push-buttons
- for push-button BCU 1gang and group push-button BCU 1gang
- for illumination and monitoring circuit


Rocker with 2 lenses attached and large labelling field with imprinted symbol bell polar white, velvety 16966079 10
Labelling field ( $\mathrm{w} \times \mathrm{h}$ ) approx. $54,8 \times 42,8 \mathrm{~mm}$
For labelling with names, notes etc.
Labelling field height arranged for two 18 mm P-touch strips.

Lenses in orange and clear attached.
IP44 protection when using neon lamp unit order no. 1675 .. and sealing set order no. 10107100

- for rocker switches change-over, intermediate
- for rocker push-buttons
- for push-button BCU 1gang and group push-button BCU 1gang
- for illumination and monitoring circuit


Rocker with imprint „0"
polar white, velvety $1622 \mathbf{6 0 8 9}$
10

IP44 protection when using rocker switch order no. 3032 and sealing set order no. 10107100 For rocker switch 2pole on/off order no. 3032 ..
For rocker switch 3pole on/off order no. 303303
■ for multi-pole rocker switch with predefined 0 position


Rocker with orange lens and imprint „0"
polar white, velvety $16246089 \quad 10$

IP44 protection when using rocker switch order no. 3032, neon lamp unit order no. 1675 ..
and sealing set order no. 10107100
For rocker switch 2pole on/off order no. 3032 ..
For rocker switch 3pole on/off order no. 303303

■ for multi-pole rocker switch with predefined 0 position

- for group push-button BCU 1gang

■ for illumination and monitoring circuit

Order no.

| Rotary switc |  |
| :---: | :---: |
|  | Centre plate with rotary knob for rotary switch polar white, velvety 11506089 <br> 1 <br> For rotary switch order no. 3862 .. <br> ■ with imprint „0" and „1" |
| Rockers |  |
|  | Rockers polar white, velvety 16236089 for rockers switches for rockers push-buttons and group rockers push- buttons for push-button BCU 2 2gang and group push-button BCU 2gang |



## Rockers with lens

polar white, velvety
16276089
10
Illumination possible only by 1 neon lamp unit.
Lenses available in orange and clear.

■ for rockers switches

- for rockers push-buttons and group rockers pushbuttons
- for illumination and monitoring circuit
- for push-button BCU 2gang and group push-button BCU 2gang


Rockers for rockers switch 3gang on/off
polar white, velvety $1665 \mathbf{6 0 8 9} 10$

For rockers switch 3gang on/off order no. 633023

|  | Rockers with imprinted symbol arrow |  |
| :--- | :--- | :--- | :--- |
| $\nabla$ | $\Delta$ | polar white, velvety 16256089 |



## Rocker with imprinted symbol arrows

 polar white, velvety 1620607910IP44 protection when using sealing set order no. 10107100
For group push-button BCU 1gang order no. 7514 1100


Rockers with imprinted symbol arrows
polar white, velvety $1644 \mathbf{6 0 8 9} 10$
For group rockers push-button as 2pole rockers push-button for shutters with middle positions order no. 503404
For group push-button BCU 2gang order no. 75142100

Order no.
Packing
Order no
Packing
unit
Barrier-free construction


Rocker with 2 lenses attached and mouth-held rod
polar white, velvety 16616049
10
Lenses in orange and clear attached.
IP44 protection when using neon lamp unit order
no. 1675 .. and sealing set order no. 10107100 An optical accentuation can be achieved by using a contrast frame order no. 10116045

Barrier-free building based on DIN 18025
■ for barrier-free construction
■ for rocker switches change-over, intermediate
■ for rocker push-buttons
■ for push-button BCU 1gang and group push-button BCU 1gang
■ for illumination and monitoring circuit


Rocker with orange lens and touchable symbol light
polar white, velvety
10

IP44 protection when using neon lamp unit order no. 1675 .. and sealing set order no. 10107100 An optical accentuation can be achieved by using a contrast frame order no. 10116045

Barrier-free building based on DIN 18025
■ for barrier-free construction
■ for rocker switches change-over, intermediate
■ for rocker push-buttons
$\square$ for illumination and monitoring circuit

- for push-button BCU 1gang and group push-button BCU 1gang


Rocker with orange lens and touchable symbol door
polar white, velvety 16516069

IP44 protection when using neon lamp unit order no. 1675 .. and sealing set order no. 10107100 An optical accentuation can be achieved by using a contrast frame order no. 10116045

Barrier-free building based on DIN 18025
■ for barrier-free construction
■ for illuminated rocker push-buttons
■ for push-button BCU 1gang


1 on page T6
Other imprint on request!
For push-button insert for hotel card switch covers order no. 5051 02, 5051 03, 5052 01, 505601

## Pullcord switches/pullcord push-buttons

Centre plate for pullcord switch
and pullcord push-button
polar white, velvety 11466089

For pullcord push-button order no. 395619
For pullcord switch order no. 3962, 3966, 613966

## 3-step switches



Centre plate with rotary knob for 3-step switch
polar white, velvety, 10846089 without 0-position
polar white, velvety, with 10966089 neutral-position

IP44 protection when using sealing set order no. 10107200
For 3-step switch with 0-position order no. 3861
For 3-step switch without 0-position order
no. 3861 01, 61386101
■ with imprint

## Rotary switches/rotary push-buttons for shutters

 for shutters
polar white, velvety 108060891

IP44 protection when using sealing set order
no. 10107200
Interlock disk for conversion to push-button see
module inserts order no. 1861
Rotary switch for shutters order no. 3841, 3842

- with imprint

Key switches/key push-buttons for shutters


Centre plate with lock for key switch for shutters
polar white, velvety, 10816089
key removable in mid
position
polar white, velvety, key 10826089
removable in 3 positions

For key switch for shutters order no. 3851, 3852

- with imprint
- with push lock function

■ with 2 keys

Order no.
Packing
Order no.
Packing
unit


Centre plate with lock for key switch for shutters
polar white, velvety, $10836089 \quad 1$ key removable in mid position

For key switch for shutters order no. 3851, 3852

- with imprint

■ only push-button function

- with 2 keys



## Centre plate for key switch/key push-button for shutters <br> polar white, velvety 1506608910 <br> Profile half cylinders see Module inserts.

IP44 protection when using sealing set order no. 10107000
For key switch for shutters order no. 382210
For key push-button for shutters order no. 3831 10, 383210
For key switch for shutters for protection class IP44 order no. 383120

■ with imprint

- for profile half cylinders
- for master-key systems


## Key switches/key push-buttons

$\checkmark \quad$ Centre plate for key switch/key push-button
polar white, velvety 1507608910
Profile half cylinders see Module inserts.
IP44 protection when using sealing set order no. 10107000
For key switch order no. 382610
For key switch for protection class IP44 order no. 383620
For key push-button for protection class IP44 order no. 385620

■ for profile half cylinders
■ for master-key systems

## RCD PROTECTION SWITCH

$\square \quad \begin{aligned} & 50 \times 50 \mathrm{~mm} \text { centre plate for RCD protection } \\ & \text { switch }\end{aligned}$
polar white, matt/velvety 14931909

## Attention!

Use only with intermediate ring for $50 \times 50 \mathrm{~mm}$ centre plate of the corresponding range.
For RCD protection switch order no. 2844

1

## BLANK PLATES



Blank plate with centre plate

| polar white, velvety, <br> without spreader claws | $\mathbf{1 0 0 9} \mathbf{6 0 8 9}$ | 20 |
| :--- | :--- | :--- |
| polar white, velvety, <br> with base and spreader <br> claws | $\mathbf{6 7 1 0 0 9} \mathbf{6 0 8 9}$ | 10 |

IP44 protection when using sealing set order no. 10107200

■ on supporting plate without cut-out

- centre plate plug-in fixing


■ on supporting plate with large cut-out
■ for customised cut-outs or holes when installing special solutions
$\square$ space-saving for relays, etc.
■ with cover plug for screw fitting
■ without spreader claws
PILOT LAMPS
Centre plate for push-button and pilot lamp E10
polar white, velvety $\quad 11246089$
Cut-out diameter 27,2 mm
Push-buttons, LEDs, neon lamps and covers see module inserts.
For push-button and pilot lamp E10 order no. 5101 ..

- centre plate plug-in fixing
- Centre plate for pilot lamp E14
polar white, velvety 11986089
LEDs, incandescent lamps and covers see module inserts.
IP44 protection when using sealing set order
no. 10107200
For pilot lamp E14 order no. 513102


## Cover for LED orientation light

and LED signal light
polar white, velvety 12486089
For LED orientation light order no. 2951
For LED signal light order no. 2952
■ with printed label sheets „Please wait/Please enter"
and „Do not disturb/make up room"

- with milky foil, for individual labelling

Order no.

Coloured cover plate see module inserts order no. 1289 ..
For insert info pilot lamp order no. 2949
with 4 light intensity LED
■ very long LED lifetime
■ with clear cover plate

## TIMERS



## Centre plate with setting knob

 for mechanical timerpolar white, velvety, 163260891
max. 15 min
polar white, velvety,
16336089
max. 120 min

Mechanical automatic timer 15 min order no. 2040
Mechanical automatic timer 120 min order no. 2041

■ with time scale imprint


Centre plate with push-button
for timer relay switch insert
polar white, velvety 16746089
10
Axial dimension diameter 4 mm
For timer relay switch insert order no. 294810

- with imprint

■ with clear lens


I on page T7

## Easy timer with display

polar white, velvety 173560891
Per programme block 2 switching times for „on/off";
Power reserve approx. 4 hrs ., maintenance-free
For manual and timer programmed switching of electrical loads.

For insert for timer order no. 2948

■ simple programming of switching times
■ with quick programming mode
■ for approx. 4 h after removing insert programmable
■ 2 programme blocks Mon. - Fri. and Sat. - Sun.
■ with automatic summer-/winter time switching (can be switched off)

- large-area display with symbols
$\square$ display of next switching time
■ with slide switch for manual/automatic


Ion page T7

## Timer with display

polar white, velvety 173660891
Switching times 18 for on/off;
Random generator +/- 15 min .
Astronomic time shift +/- 2 hrs.;
Power reserve approx. 24 hrs.
Countdown function 0-23 hrs. 59 min.
For manual and timer programmed switching of electrical loads.

For insert for timer order no. 2948

■ with imprint in German
■ with pre-set base programme
■ 2 independent programme memories for everyday/ holidays

- with week and day programme

■ with slide switch from summer to winter time

- astro programme for sunrise/sundown switching
- large-area display with symbols
- with slide switch for manual/automatic


I on page T7

## Timer with display and sensor connection

 polar white, velvety $17386089 \quad 1$Setting range twilight approx. 6-300 Lux;
Switching times 18 for on/off;
Random generator +/- 15 min .;
Astronomic time shift +/- 2 hrs.;
Power reserve approx. 24 hrs.;

Countdown function 0-23 hrs. 59 min.
For manual and timer programmed switching of electrical loads.

For RolloTec brightness sensors order no. 0169, 0184 For insert for timer order no. 2948

- with imprint in German

■ with pre-set base programme

- 2 independent programme memories for everyday/ holidays
- with week and day programme

■ with slide switch from summer to winter time

- astro programme for sunrise/sundown switching
- large-area display with symbols
- with slide switch for manual/automatic

■ for sensor connection to socket contact or terminal block
■ connected RolloTec brightness sensor can be used for twilight-controlled switching-on

Order no.
Packing
unit

## ROTARY DIMMERS

Centre plate with setting knob for rotary dimmer
polar white, velvety $1137 \mathbf{6 0 8 9} 10$
Axial dimension diameter 4 mm
IP44 protection when using a sealing set order no. 10107200
For rotary dimmer order no. 2819 .., 2830 10, 2860 10, 2875, 2885
For universal rotary dimmer order no. 286110 For universal rotary dimmer extension unit order no. 286210
For rotary dimmer LV order no. 2866 10, 2873
For Tronic rotary dimmer order no. 2867 10, 2874
For rotary potentiometer 1-10 V order no. 289110 For push-button rotary potentiometer 1-10 V order no. 289610
For rotary potentiometer DALI order no. 2897
For rotary potentiometer DALI with integrated power supply unit order no. 2898
SPEED CONTROLLERS

## Radio buttons

BLC radio button
polar white, velvety $17606089 \quad 1$
Radio signal reception frequency $433,42 \mathrm{MHz}$; Learnable radio transmitters 30

Extension unit operation with BLC extension unit and
I on page T12 push-button (NO) possible as of release R2.1.

For actuation via button and radio transmitter.
For BLC universal touch dimmer order no. 2902
For BLC touch control unit 1-10 V order no. 2903
For BLC touch dimmer LV order no. 2904
For BLC triac switch insert LV order no. 2905
For BLC relay switch insert order no. 2906
For BLC relay switch insert with potential-free contact order no. 290610
For BLC relay switch insert HVAC order no. 2912
For BLC Tronic switch insert order no. 2916

■ with 2-push-buttons operation concept
■ with 5 light scenes for „on/off", dimming value

- retrieving light scenes only by using radio transmitter
- radio signal of taught-in radio controller activates for 1 minute (subsequently triggered)
$\square$ switch-on brightness for BLC dimmer insert mainsfailure protection storable
- reset function (to factory setting)

Order no.

## BLC Controllers

## BLC controller 1.1m

polar white, velvety 178360891
Nominal mounting height 1,1 m;
Range frontal approx. 10 m ;
Range lateral each approx. 6 m ;
Detection field semi-oval shaped approx. $10 \times 12 \mathrm{~m}$;

## I on page T15

Detection angle $180^{\circ}$;
Detection levels 2;
Switching segments 72;
Response sensitivity programmable
approx. 20-100 \% ;
Response brightness adjustable approx. 0-80 /
unlimited Lux;
Delay time approx. 2 min.;
Operating temperature $-20-+45^{\circ} \mathrm{C}$;
Dimensions assembling height $23,5 \mathrm{~mm}$
Direct sunlight penetration the upward-pointing detection plane results in failure of the movement controller. Only suitable for interiors!

Switches on for the duration of the controller delay time in case minimum response brightness level is infringed and if movement of people is detected. In conjunction with a BLC relay switch unit HVAC, the HVAC-channel is also switched on for the duration of its delay time independent of response brightness.

For BLC universal touch dimmer order no. 2902
For BLC touch control unit 1-10 V order no. 2903
For BLC touch dimmer LV order no. 2904
For BLC triac switch insert LV order no. 2905
For BLC relay switch insert order no. 2906
For BLC relay switch insert with potential-free contact order no. 290610
For BLC controller extension unit order no. 2908
For BLC relay switch insert HVAC order no. 2912
For BLC Tronic switch insert order no. 2916 For BLC stair light time switching impulse insert order no. 293410

■ activation by push-button opener in the cable

- with cover to limit detection angle to $90^{\circ}$

Order no.


1 on page T20

BLC controller 2.2m
polar white, velvety *17886089 1
Nominal mounting height $2,2(1,1) \mathrm{m}$;
Range frontal approx. 12 (6) m;
Range lateral each approx. 6 (3) m; Detection field semi-oval shaped approx. $12 \times 12 \mathrm{~m}$; Detection angle $180^{\circ}$;
Detection levels 6;
Switching segments 268;
Response brightness (learnable) approx. 10 lx ; Delay time approx. 2 min.;
Operating temperature $-15-+45^{\circ} \mathrm{C}$
As delivered and reset condition: response brightness 10 lx .

Switches on for the duration of the motion detector delay time in case minimum response brightness level is infringed and if movement of people is detected.
In conjunction with a BLC relay switch unit HVAC, the HVAC-channel is also switched on for the duration of its delay time independent of response brightness.

For BLC universal touch dimmer order no. 2902
For BLC touch control unit 1-10 V order no. 2903
For BLC touch dimmer LV order no. 2904
For BLC triac switch insert LV order no. 2905
For BLC relay switch insert order no. 2906
For BLC relay switch insert with potential-free contact order no. 290610
For BLC controller extension unit order no. 2908
For BLC relay switch insert HVAC order no. 2912
For BLC Tronic switch insert order no. 2916
For BLC stair light time switching impulse insert order no. 293410

- with crawl-under protection
- $\mu$-processor controlled operation (detection signal evaluation and interference signal suppression)
- glare-proof e.g. against a torch
- no switch-on in case of inadvertent brief shadowing
- with adaptive sensitivity adjustment
- switch-on brightness for BLC dimmer insert with hand transmitter and BLC extension unit storable
- dimming insert switch-off advance warning (30 s dimming process)
- with teach function for response brightness
- activation by push-button opener in the cable

Order no.

## BLC controller 180

polar white, velvety \#17866089 1
Nominal mounting height 2,2 m;
Range frontal approx. $12 \mathrm{~m} ;$
Range lateral each approx. 6 m ;
At assembly height $1,1 \mathrm{~m}$;
I on page T15
Range frontal approx. 6 m ;
Range lateral each approx. 3 m ;
Detection field semi-oval shaped approx. $12 \times 12 \mathrm{~m}$;
Detection angle $180^{\circ}$;
Detection levels 3;
Switching segments 104;
Response sensitivity programmable
approx. 20-100 \% ;
Response brightness adjustable approx. 0-80 /
unlimited Lux;
Delay time approx. 2 min.;
Operating temperature -20-+45 ${ }^{\circ} \mathrm{C}$;
Dimensions assembling height $23,5 \mathrm{~mm}$
Switches on for the duration of the controller delay time in case minimum response brightness level is infringed and if movement of people is detected. In conjunction with a BLC relay switch unit HVAC, the HVAC-channel is also switched on for the duration of its delay time independent of response brightness.

For BLC universal touch dimmer order no. 2902 For BLC touch control unit 1-10 V order no. 2903
For BLC touch dimmer LV order no. 2904
For BLC triac switch insert LV order no. 2905
For BLC relay switch insert order no. 2906
For BLC relay switch insert with potential-free contact order no. 290610
For BLC controller extension unit order no. 2908
For BLC relay switch insert HVAC order no. 2912 For BLC Tronic switch insert order no. 2916 For BLC stair light time switching impulse insert order no. 293410

- activation by push-button opener in the cable

■ with cover to limit detection angle to $90^{\circ}$

Order no.


BLC controller comfort 1,1 m
polar white, velvety $1784 \mathbf{6 0 8 9}$
1
Nominal mounting height $1,1 \mathrm{~m}$;
Range frontal approx. 10 m ;
Range lateral each approx. 6 m ;
Detection field semi-oval shaped approx. $10 \times 12 \mathrm{~m}$;
I on page T15
Detection angle $180^{\circ}$;

Detection levels 2;
Switching segments 72;
Response sensitivity programmable
approx. 20-100 \% ;
Response brightness adjustable approx. 0-80/ unlimited Lux;
Delay time adjustable approx. 10 sec.- 30 min . ;
Time to dim down 30 sec.;
Step operation $0,5 \mathrm{sec}$.;
Immunity time approx. 3 sec.;
Operating temperature $-20-+45^{\circ} \mathrm{C}$;
Dimensions assembling height $23,5 \mathrm{~mm}$
Direct sunlight penetration the upward-pointing detection plane results in failure of the movement controller. Only suitable for interiors!

Switches on for the duration of the delay time set on the controller in case minimum response brightness level is infringed and if movement of people is detected.
In conjunction with a BLC relay switch unit HVAC, the HVAC-channel is also switched on for the duration of its delay time independent of response brightness.

For BLC universal touch dimmer order no. 2902
For BLC touch control unit 1-10 V order no. 2903
For BLC touch dimmer LV order no. 2904
For BLC triac switch insert LV order no. 2905
For BLC relay switch insert order no. 2906
For BLC relay switch insert with potential-free contact order no. 290610
For BLC controller extension unit order no. 2908
For BLC relay switch insert HVAC order no. 2912
For BLC Tronic switch insert order no. 2916
For BLC stair light time switching impulse insert order no. 293410

- with slide switch for off/automatic/on

■ $\mu$-processor controlled operation (detection signal evaluation and interference signal suppression)
$\square$ glare-proof e.g. against a torch
no switch-on in case of inadvertent brief shadowing

- with adaptive sensitivity adjustment
- with teach function for response brightness
$\square$ step operation with immunity time (e.g. for bell)
- switch-on brightness in conjunction with BLC dimmer inserts can only be saved via BLC extension unit
$\square$ with dimming function (soft-off) when using BLC dimmer inserts
- activation by push-button opener in the cable
$\square$ with cover to limit detection angle to $90^{\circ}$

Order no.
Packing
unit

## BLC IR controller comfort 2,2 m

 polar white, velvety *17896089 1Nominal mounting height $2,2(1,1) \mathrm{m}$;
Range frontal approx. 12 (6) m;
Range lateral each approx. 6 (3) m;
Detection field semi-oval shaped approx. $12 \times 12 \mathrm{~m}$;
Detection angle $180^{\circ}$;
Detection levels 6;
Switching segments 268;
Response sensitivity stages 25/50/75/100 \%;
Response brightness stages 1/10/150/250 Lux;
Delay time adjustable approx. $10 \mathrm{sec} .-60 \mathrm{~min}$;
Step operation 0,3 sec.;
Limit shutdown after max. 90 min.;
Operating temperature $-15-+45{ }^{\circ} \mathrm{C}$
Full range of functions only with hand transmitter for BLC IR controller. As-delivered and reset condition: Response sensitivity $100 \%$, time delay 30 s, night mode approx. 1 lx , additional functions OFF.

Switches on for the duration of the motion detector delay time in case minimum response brightness level is infringed and if movement of people is detected.
In conjunction with a BLC relay switch unit HVAC, the HVAC-channel is also switched on for the duration of its delay time independent of response brightness.

## Adjustable with hand transmitter for BLC IR

 controller order no. 2770For BLC universal touch dimmer order no. 2902
For BLC touch control unit 1-10 V order no. 2903
For BLC touch dimmer LV order no. 2904
For BLC triac switch insert LV order no. 2905
For BLC relay switch insert order no. 2906
For BLC relay switch insert with potential-free contact order no. 290610
For BLC controller extension unit order no. 2908
For BLC relay switch insert HVAC order no. 2912
For BLC Tronic switch insert order no. 2916
For BLC stair light time switching impulse insert order no. 293410

- with 2 buttons for permanent ON (LED green), permanent OFF (LED red) and automatic
■ with detection and IR receiver LED red, and IR confirmation LED green
$\square$ with crawl-under protection
$\square \mu$-processor controlled mode of operation
■ glare-proof e.g. against a torch
■ no switch-on in case of inadvertent brief shadowing
$■$ with adaptive sensitivity adjustment
$■$ switch insert switch-off advance warning ( $3 x$ alternately 0.2 s OFF/10 s ON) via remote control
- dimming insert switch-off advance warning (30 s dimming process)
- switch-on brightness for BLC dimmer insert with hand transmitter and BLC extension unit storable
- angle of detection limiter by means of sensor cutoff via remote control
- Short-time mode with immunity time (e.g. for bell) via remote control
■ Hotel mode via remote control: without motion is dimmed to $20 \%$
■ test mode via remote control: response sensitivity $100 \%$, time delay 1 s and day mode
$\square$ Presence simulation via remote control: Retrieval of the switching operations from the last 7 days
$\square$ activation by push-button opener in the cable
■ with teach function for response brightness

Order no.


BLC controller 180 comfort with slide switch for off/automatic/on polar white, velvety \#17876089
Nominal mounting height $2,2 \mathrm{~m}$;
Range frontal approx. 12 m ;
Range lateral each approx. 6 m ;
I on page T15 At assembly height 1,1 m; Range frontal approx. 6 m ; Range lateral each approx. 3 m; Detection field semi-oval shaped approx. $12 \times 12 \mathrm{~m}$; Detection angle $180^{\circ}$;
Detection levels 3;
Switching segments 104;
Response sensitivity programmable approx. 20-100 \% ;
Response brightness adjustable approx. 0-80 / unlimited Lux;
Delay time adjustable approx. $10 \mathrm{sec} .-30 \mathrm{~min}$. ; Time to dim down 30 sec.;
Step operation $0,5 \mathrm{sec}$.;
Immunity time approx. 3 sec .;
Operating temperature $-20-+45^{\circ} \mathrm{C}$;
Dimensions assembling height $23,5 \mathrm{~mm}$
Switches on for the duration of the delay time set on the controller in case minimum response brightness level is infringed and if movement of people is detected.
In conjunction with a BLC relay switch unit HVAC, the HVAC-channel is also switched on for the duration of its delay time independent of response brightness.

For BLC universal touch dimmer order no. 2902
For BLC touch control unit 1-10 V order no. 2903
For BLC touch dimmer LV order no. 2904
For BLC triac switch insert LV order no. 2905
For BLC relay switch insert order no. 2906
For BLC relay switch insert with potential-free contact order no. 290610
For BLC controller extension unit order no. 2908 For BLC relay switch insert HVAC order no. 2912
For BLC Tronic switch insert order no. 2916
For BLC stair light time switching impulse insert order no. 293410
$■ \mu$-processor controlled operation (detection signal evaluation and interference signal suppression)

- glare-proof e.g. against a torch

■ no switch-on in case of inadvertent brief shadowing
■ with adaptive sensitivity adjustment

- with teach function for response brightness

■ step operation with immunity time (e.g. for bell)

- switch-on brightness in conjunction with BLC dimmer inserts can only be saved via BLC extension unit
■ with dimming function (soft-off) when using BLC dimmer inserts
$\square$ activation by push-button opener in the cable
- with cover to limit detection angle to $90^{\circ}$

Order no.
Packing unit

## BLC controller IP44

## -

BLC controller 1.1 m IP44
polar white, velvety 178361891
Nominal mounting height $1,1 \mathrm{~m}$;
Range frontal approx. 10 m ;
Range lateral each approx. 6 m;
Detection field semi-oval shaped approx. $10 \times 12 \mathrm{~m}$;
I on page T15 Detection angle $180^{\circ}$.
Detection levels 2;
Switching segments 72;
Response sensitivity programmable
approx. 20-100 \% ;
Response brightness adjustable approx. 0-80 /
unlimited Lux;
Delay time approx. 2 min.;
Operating temperature $-20-+45^{\circ} \mathrm{C}$;
Dimensions assembling height $23,5 \mathrm{~mm}$
Attention!
Sealing set attached.
Direct sunlight penetration the upward-pointing detection plane results in failure of the movement controller. Only suitable for interiors!

Switches on for the duration of the motion detector delay time in case minimum response brightness level is infringed and if movement of people is detected.
In conjunction with a BLC relay switch unit HVAC, the HVAC-channel is also switched on for the duration of its delay time independent of response brightness.

For BLC universal touch dimmer order no. 2902 For BLC touch control unit 1-10 V order no. 2903 For BLC touch dimmer LV order no. 2904 For BLC triac switch insert LV order no. 2905 For BLC relay switch insert order no. 2906 For BLC relay switch insert with potential-free contact order no. 290610
For BLC controller extension unit order no. 2908
For BLC relay switch insert HVAC order no. 2912
For BLC Tronic switch insert order no. 2916 For BLC stair light time switching impulse insert order no. 293410

IP44
activation by push-button opener in the cable
$\square$ with cover to limit detection angle to $90^{\circ}$

Order no.


BLC controller 2.2 m IP44
polar white, velvety 17866189
1
Nominal mounting height $2,2 \mathrm{~m}$;
Range frontal approx. 12 m ;
Range lateral each approx. 6 m ;
At assembly height $1,1 \mathrm{~m}$;
Range frontal approx. 6 m ;

Range lateral each approx. 3 m;
Detection field semi-oval shaped approx. $12 \times 12$;
Detection angle $180^{\circ}$;
Detection levels 3;
Switching segments 104;
Response sensitivity programmable
approx. 20-100 \% ;
Response brightness adjustable approx. 0-80/
unlimited Lux;
Delay time approx. 2 min.;
Operating temperature $-20-+45^{\circ} \mathrm{C}$;
Dimensions assembling height $23,5 \mathrm{~mm}$
Attention!
Sealing set included.
Switches on for the duration of the motion detector delay time in case minimum response brightness level is infringed and if movement of people is detected.
In conjunction with a BLC relay switch unit HVAC, the HVAC-channel is also switched on for the duration of its delay time independent of response brightness.

For BLC universal touch dimmer order no. 2902
For BLC touch control unit 1-10 V order no. 2903
For BLC touch dimmer LV order no. 2904
For BLC triac switch insert LV order no. 2905
For BLC relay switch insert order no. 2906
For BLC relay switch insert with potential-free contact order no. 290610
For BLC controller extension unit order no. 2908
For BLC relay switch insert HVAC order no. 2912
For BLC Tronic switch insert order no. 2916
For BLC stair light time switching impulse insert order no. 293410

## IP44

■ activation by push-button opener in the cable

- with cover to limit detection angle to $90^{\circ}$

Order no.
Packing
unit
BLC controller comfort 1.1 m IP44
polar white, velvety 17846189
1
Nominal mounting height 1,1 m;
Range frontal approx. 10 m ;
Range lateral each approx. 6 m ;
Time to dim down 30 sec.;
I on page T15
Immunity time approx. 3 sec.;
Operating temperature $-20-+45^{\circ} \mathrm{C}$;
Dimensions assembling height $23,5 \mathrm{~mm}$

## Attention!

Sealing set attached.
Direct sunlight penetration the upward-pointing detection plane results in failure of the movement controller. Only suitable for interiors!

Switches on for the duration of the motion detector delay time in case minimum response brightness level is infringed and if movement of people is detected.
In conjunction with a BLC relay switch unit HVAC, the HVAC-channel is also switched on for the duration of its delay time independent of response brightness.

For BLC universal touch dimmer order no. 2902
For BLC touch control unit 1-10 V order no. 2903
For BLC touch dimmer LV order no. 2904
For BLC triac switch insert LV order no. 2905
For BLC relay switch insert order no. 2906
For BLC relay switch insert with potential-free contact order no. 290610
For BLC controller extension unit order no. 2908
For BLC relay switch insert HVAC order no. 2912
For BLC Tronic switch insert order no. 2916
For BLC stair light time switching impulse insert order no. 293410

IP44

- $\mu$-processor controlled operation (detection signal evaluation and interference signal suppression)
■ glare-proof e.g. against a torch
$\square$ no switch-on in case of inadvertent brief shadowing
■ with adaptive sensitivity adjustment
■ with teach function for response brightness
$\square$ step operation with immunity time (e.g. for bell)
$\square$ switch-on brightness in conjunction with BLC dimmer inserts can only be saved via BLC extension unit
■ with dimming function (soft-off) when using BLC dimmer inserts
■ activation by push-button opener in the cable
■ with cover to limit detection angle to $90^{\circ}$

Order no.


BLC controller comfort 2.2 m IP44
polar white, velvety $\quad 17876189$
Nominal mounting height 2,2 m;
Range frontal approx. 12 m ;
Range lateral each approx. 6 m ;
At assembly height $1,1 \mathrm{~m}$;
I on page T15 Range frontal approx. 6 m ;
Range lateral each approx. 3 m;
Detection field semi-oval shaped approx. $12 \times 12 \mathrm{~m}$;
Detection angle $180^{\circ}$;
Detection levels 3;
Switching segments 104;
Response sensitivity programmable
approx. 20-100\% ;
Response brightness adjustable approx. 0-80/ unlimited Lux;
Delay time adjustable approx. $10 \mathrm{sec} .-30 \mathrm{~min}$. ;
Time to dim down 30 sec.;
Step operation 0,5 sec.;
Immunity time approx. 3 sec.;
Operating temperature $-20-+45^{\circ} \mathrm{C}$;
Dimensions assembling height $23,5 \mathrm{~mm}$

## Attention!

Sealing set included.
Switches on for the duration of the motion detector delay time in case minimum response brightness level is infringed and if movement of people is detected.
In conjunction with a BLC relay switch unit HVAC, the HVAC-channel is also switched on for the duration of its delay time independent of response brightness.

For BLC universal touch dimmer order no. 2902
For BLC touch control unit 1-10 V order no. 2903 For BLC touch dimmer LV order no. 2904
For BLC triac switch insert LV order no. 2905
For BLC relay switch insert order no. 2906 For BLC relay switch insert with potential-free contact order no. 290610
For BLC controller extension unit order no. 2908 For BLC relay switch insert HVAC order no. 2912
For BLC Tronic switch insert order no. 2916
For BLC stair light time switching impulse insert order no. 293410

## IP44

■ $\mu$-processor controlled operation (detection signal evaluation and interference signal suppression)

- glare-proof e.g. against a torch
- no switch-on in case of inadvertent brief shadowing
- with adaptive sensitivity adjustment
- with teach function for response brightness
- step operation with immunity time (e.g. for bell)
- switch-on brightness in conjunction with BLC dimmer inserts can only be saved via BLC extension unit
■ with dimming function (soft-off) when using BLC dimmer inserts
- activation by push-button opener in the cable

■ with cover to limit detection angle to $90^{\circ}$

Order no.
Packing

## THERMOSTATS



Room thermostat with NC contact, centre plate, rocker switch and LED polar white, velvety 20306089
$5-30^{\circ} \mathrm{C}, 50 / 60 \mathrm{~Hz}$
Rated voltage 250 V ; ;
Switching current 10 A ;
I on page T34
Inductive load at $\cos \varphi$ 0,6 max. 4 A;
Switching temperature difference approx. $0,5^{\circ} \mathrm{C}$;
Night lowering approx. $4^{\circ} \mathrm{C}$
Neutral conductor necessary!
If the pre-set temperature is reached the contact opens.

Replacement centre plate order no. 16716089
Suitable valve drive order no. 75900076

- with imprint
- setting knob with temperature range limitation
- with on/off switch and indicator LED for „on"
- with thermal return
- with separate connection for night lowering

■ e.g. for valve drives closed in de-energized state

- without spreader claws
- with plug-in terminals


Room thermostat 24 V with NC contact, centre plate, rocker switch and LED polar white, velvety 20316089
$5-30^{\circ} \mathrm{C}, 50 / 60 \mathrm{~Hz}$
Rated voltage $24 \mathrm{~V} \sim$;
Switching current 10 A ;
I on page T34
Rated voltage $24 \mathrm{~V}=$;
Switching current $4 \mathrm{~A}=$;
Switching temperature difference approx. $0,5^{\circ} \mathrm{C}$; Night lowering approx. $4^{\circ} \mathrm{C}$

If the pre-set temperature is reached the contact opens.

Replacement centre plate order no. 16716089
Suitable valve drive order no. 75900077

- with imprint
- setting knob with temperature range limitation
- with on/off switch and indicator LED for „on"
- with thermal return
- with separate connection for night lowering
- e.g. for valve drives closed in de-energized state
- without spreader claws
- with plug-in terminals


Centre plate with setting knob, rocker and lens for room thermostat with NC contact
polar white, velvety 16716089

Replacement demand for order no. 203060 89, 20316089

- with imprint

■ setting knob with temperature range limitation


Room thermostat with change-over and centre plate
polar white, velvety 20266089
1
$5-30^{\circ} \mathrm{C}, 50 / 60 \mathrm{~Hz}$
Rated voltage $250 \mathrm{~V} \sim$;
Switching current „heating" 10 A ;
1 on page T34 Switching current "heating" at $\cos \varphi 0.64 \mathrm{~A}$;
Switching current „cooling" 5 A;
Switching current „cooling" at $\cos \varphi 0.62$ A;
Switching temperature difference approx. $0,5^{\circ} \mathrm{C}$
Neutral conductor necessary!

If the pre-set temperature is reached the contact changes.

Replacement centre plate order no. 16706089
Suitable valve drive order no. 75900076

■ with imprint

- setting knob with temperature range limitation
$\square$ for heating or cooling mode
$\square$ e.g. for valve drives closed in de-energized state
with thermal return
- without spreader claws
- with plug-in terminals


Centre plate with setting knob for room thermostat with change-over contact polar white, velvety 16706089

Replacement demand for order no. 20266089

- with imprint
- setting knob with temperature range limitation


Floor thermostat with NO contact, centre plate, rocker switch, 2 LEDs and floor temperature sensor
polar white, velvety 20346089
$10-50{ }^{\circ} \mathrm{C}, 50 / 60 \mathrm{~Hz}$
Rated voltage $250 \mathrm{~V} \sim$;
I on page T34
Switching current 10 A;

Switching temperature difference approx. $1^{\circ} \mathrm{C}$;
Night lowering approx. $5{ }^{\circ} \mathrm{C}$;
Sensor cable length 4 m
Neutral conductor necessary!
If the temperature falls under the pre-set value the contact closes.

Replacement floor temperature sensor / remote sensor order no. 0161
Replacement centre plate order no. 16726089
Suitable valve drive order no. 75900076

- with imprint

■ setting knob with temperature range limitation
with on/off switch and 2 LEDs

- with LED for heating and LED for night lowering
- with separate connection for night lowering
$\square$ e.g. for valve drives closed in de-energized state
- without spreader claws
$\square$ with plug-in terminals

Order no.
Order no.
Packing
Centre plate with setting knob, rocker and
lenses for floor temperature thermostat

polar white, velvety 16726089 $\quad$| Replacement demand for order no. 20346089 |
| :--- |

For RolloTec brightness sensors order no. 0169, 0184 For RolloTec glass breakage sensor order no. 0170
For RolloTec adapter for sensors order no. 0171
For RolloTec standard insert without neutral conductor connection order no. 2911
For RolloTec standard insert order no. 2925
For Rollotec comfort insert order no. 2975
For RolloTec comfort insert for direct current drives order no. 297501
For magnetic contact order no. 9251 ..

■ with lock-out protection e.g. for shutter control terrace door
$\square$ Activation of the anti-lockout device in the upper end position by touching in the UP direction for

- with indicator LED for lock-out protection

■ brightnesses individually adjustable
■ on brightness sensor surface-mounted, the taught-in running time for sun protection movement is used

- no twilight sensor function

■ only for sensor connection to terminal block
Radio buttons
RolloTec radio button
polar white, velvety 17586089
Radio signal reception frequency $433,42 \mathrm{MHz}$; Learnable radio transmitters 30 ;
Lamella adjustment with signal $<1 \mathrm{sec}$.;
Self-sustaining for 2 min . with signal $>1 \mathrm{sec}$.
For actuation via button and radio transmitter.
For RolloTec standard insert without neutral conductor connection order no. 2911
For RolloTec standard insert order no. 2925
For Rollotec comfort insert order no. 2975
For RolloTec comfort insert for direct current drives order no. 297501

■ with 5 light scenes for „open/close"

- retrieving light scenes only by using radio transmitter

Order no.

Order no.

## RolloTec radio button with sensor connection polar white, velvety $17596089 \quad 1$

Radio signal reception frequency $433,42 \mathrm{MHz}$; Learnable radio transmitters 30 ; Brightness value sun approx. 5-80 kLux; Lamella adjustment with signal < 1 sec.; Self-sustaining for 2 min . with signal > 1 sec .

For actuation via button and radio transmitter.
For RolloTec brightness sensors order no. 0169, 0184
For RolloTec glass breakage sensor order no. 0170
For RolloTec adapter for sensors order no. 0171
For RolloTec standard insert without neutral conductor connection order no. 2911
For RolloTec standard insert order no. 2925
For Rollotec comfort insert order no. 2975
For RolloTec comfort insert for direct current drives order no. 297501
For magnetic contact order no. 9251 ..

- with 5 light scenes for „open/close"

■ retrieving light scenes only by using radio transmitter

- brightness value for sunblind individually adjustable
- no twilight sensor function
- only for sensor connection to terminal block


## Memory buttons



RolloTec memory button
polar white, velvety $17566089 \quad 1$
Lamella adjustment with signal < 1 sec.;
Self-sustaining for 2 min. with signal > 1 sec.;
Storage of „up/down" time with signal $>3,5 \mathrm{sec}$.
I on page T37 Stored „up" and/or "down" time is run daily in automatic operation.

For manual and timer programmed running of awnings, shutters and blinds.

For RolloTec standard insert without neutral conductor connection order no. 2911 For RolloTec standard insert order no. 2925 For Rollotec comfort insert order no. 2975 For RolloTec comfort insert for direct current drives order no. 297501

## RolloTec memory button

 with sensor connectionpolar white, velvety $\quad 17576089$
Brightness value sun approx. 20 kLux;
Lamella adjustment with signal $<1 \mathrm{sec}$.;
Self-sustaining for 2 min . with signal > 1 sec .;
Storage of „up/down" time with signal > $3,5 \mathrm{sec}$.
Stored „up" and/or „down" time is run daily in automatic operation.

For manual and timer programmed running of awnings, shutters and blinds.

For RolloTec brightness sensors order no. 0169, 0184
For RolloTec glass breakage sensor order no. 0170
For RolloTec adapter for sensors order no. 0171
For RolloTec standard insert without neutral conductor connection order no. 2911
For RolloTec standard insert order no. 2925
For Rollotec comfort insert order no. 2975
For RolloTec comfort insert for direct current drives order no. 297501
For magnetic contact order no. 9251 ..

- no twilight sensor function
- only for sensor connection to terminal block


## Timer switches



I on page 137

RolloTec easy timer with display
polar white, velvety 17626089
1
Operation times 2 up/down;
Power reserve approx. 6 hrs., maintenance-free;
Lamella adjustment with signal < 1 sec.;
Self-sustaining for 2 min . with signal $>1 \mathrm{sec}$.
No extension units and sensor signals or central commands will be processed.

For manual and timer programmed running of awnings, shutters and blinds.

For RolloTec standard insert without neutral conductor connection order no. 2911
For RolloTec standard insert order no. 2925
For Rollotec comfort insert order no. 2975
For RolloTec comfort insert for direct current drives order no. 297501

- with imprint in German
- with pre-set base programme
- simple programming of operation times
- with quick programming mode
- programming possible for up to 6 h after removing insert
- 2 programme blocks Mon. - Fri. and Sat. - Sun.
- large-area display
- with slide switch for manual/automatic

Order no.
Order no.
Packing
unit


RolloTec timer comfort with display and sensor connection
polar white, velvety
17756089
1
Setting range sun approx. 1-76 kLux;
Setting range twilight approx. 6-300 Lux;
Operation times 18 up/down;
Random generator + /- 15 min .;
Power reserve approx. 3 hrs., maintenance-free; Astronomic time shift + - 2 hrs.;
Learnable running time $1 \mathrm{sec} .-6 \mathrm{~min}$.;
Lamella adjusting time 0-5 sec.;
Lamella adjustment with signal < 1 sec.;
Lock at touching > 1 sec .
For manual and timer programmed running of awnings, shutters and blinds.

For RolloTec brightness sensors order no. 0169, 0184 For RolloTec glass breakage sensor order no. 0170 For RolloTec adapter for sensors order no. 0171 For RolloTec standard insert without neutral conductor connection order no. 2911 For RolloTec standard insert order no. 2925
For Rollotec comfort insert order no. 2975
For RolloTec comfort insert for direct current drives order no. 297501
For magnetic contact order no. 9251 ..

■ with German display text

- with totally 3 independent programme memories
- 2 programme memories pre-set
- programming according to week and days possible
- programme memory network failure proved

■ with automatic summer-/winter time switching (can be switched off)
■ astro programme for sunrise/sundown running

- large-area display with symbols

■ indication of the next operation schedule under consideration of astro and coincidence function

- with slide switch for manual/automatic
- lock out protection because evaluation of the centre or extension unit commands can be switched off
- lamella position programmable at down operation times
■ with surface-mounted RolloTec brightness sensor additionally settable with shutter and lamella pos.
- connected RolloTec brightness sensor can be used for twilight-controlled lowering
■ con.surface-mounted RolloTec brightness sensor suitable for twilight-controlled raising and lowering
- for the sensor connection on the clamping block in the insert

Order no.
Packing
unit

## ENTERNTAINMENT ELECTRONICS

NEW


Radio Touch
polar white, velvety *28806089 1
$230 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}$
Frequency range 87,5-108 MHz;
for loudspeaker 4-8 $\Omega$ /channel;
Dimensions of display $35 \times 28 \mathrm{~mm}$;
Conductor cross-section max. $2,5 \mathrm{~mm}^{2}$;
Installation depth 33 mm
For speaker order no. 28826089 For docking station order no. 28836089

## CE

- with one loudspeaker
illuminated touch graphics display
■ operation via sensor areas of the touch display
$\square$ time and date display
$\square$ stereo FM radio with RDS display
manual and automatic station search
- 8 station memory, non-volatile
$\square$ switch-on with last station
$\square$ volume control
- alarm clock
- sleep timer
- countdown

■ external audio input e.g. for MP3 player or docking stations

- connection for a second speaker
- extension unit input for separate on/off switching
$\square$ single and combination installation
$\square$ with screw terminals



## Radio Touch IP

polar white, velvety *28816089
230 V~, 50/60 Hz
Frequency range 87,5-108 MHz;
for loudspeaker 4-8 $\Omega$ /channel;
Dimensions of display $35 \times 28 \mathrm{~mm}$;
Conductor cross-section max. $2,5 \mathrm{~mm}^{2}$;
Installation depth 33 mm
Internet radio for receiving numerous national and international radio stations.
For speaker order no. 28826089
For docking station order no. 28836089

## CE

■ with one loudspeaker

- illuminated touch graphics display

■ operation via sensor areas of the touch display
$\square$ time and date display

- stereo FM radio with RDS display and IP radio

■ manual and automatic FM station search

- IP connectivity by means of WLAN
$\square$ a variety of transmitters divided into genres available
■ 8 station memory, non-volatile
$\square$ switch-on with last station
- volume control

■ alarm clock
■ sleep timer

- countdown

■ external audio input e.g. for MP3 player or docking stations

- connection for a second speaker

■ extension unit input for separate on/off switching

- single and combination installation
- with screw terminals


Speaker
polar white, velvety *28826089 1
$8 \Omega$
Nominal/music power handling $4 / 8 \mathrm{~W}$;
Frequency response (-3 dB) $170-20.000 \mathrm{~Hz}$; Installation depth $22,5 \mathrm{~mm}$

For Radio Touch order no. 28806089
For Radio Touch IP order no. 28816089
For docking station order no. 28836089
CE


## TV/AUDIO/VIDEO

Multimedia outlets
$3 \times$ Cinch/S-Video socket
polar white, velvety *3315326089 10
Frequency range audio $20 \mathrm{~Hz}-20 \mathrm{KHz}$;
Frequency range video max. 160 MHz
Especially suitable for connecting typical analogue audio and video devices such as receivers, hi-fi systems and DVD players.

Installation recommendation:
Company name Kaiser: „Electronic-Dose" for compliance with the permissible bending radii, Art.-No. 1068-02 or 9062-74
Company name Fränkische: „Multimedia-Rohr" for laying pre-assembled connection cable, Art.-No. 294.10.092

■ gold-plated contacts
■ without spreader claws
$\square 2$ cinch double jacks for audio connection (red, white)

- 1 cinch double jack for video connection (yellow)

■ S-Video double jack

Order no.
Packing
unit


1) on page T65

VGA socket
polar white, velvety *33 $15406089 \quad 10$
Frequency range video max. 160 MHz ; Resolution max. $1280 \times 1024 \mathrm{px}$

Especially suitable for connecting PCs, notebooks, etc. with display devices such as monitors (including LCD monitors) and projectors.

Installation recommendation:
Company name Kaiser: „Electronic-Dose" for compliance with the permissible bending radii, Art.-No. 1068-02 or 9062-74
Company name Fränkische: „Multimedia-Rohr" for laying pre-assembled connection cable, Art.-No. 294.10.092

Please notice the maximum cable length of the cableand devices manufacturer.

■ S-VGA compatible

- without spreader claws
- with 15 pole D-subminiature double jack


1 on page T65
VGA socket with screw-in lift terminals polar white, velvety *33 $15416089 \quad 10$
Frequency range video max. 160 MHz ;
Resolution max. $1280 \times 1024 \mathrm{px}$;
Conductor cross-section max. $1,5 \mathrm{~mm}^{2}$
Especially suitable for connecting PCs, notebooks, etc. with display devices such as monitors (including LCD monitors) and projectors.

Installation recommendation:
Company name Kaiser: „Electronic-Dose" for compliance with the permissible bending radii, Art.-No. 1068-02 or 9062-74
Company name Fränkische: „Multimedia-Rohr" for laying pre-assembled connection cable, Art.-No. 294.10.092

Please notice the maximum cable length of the cableand devices manufacturer.

S-VGA compatible

- without spreader claws
- with 15 pole D-subminiature jack (front)
- with screw-in lift terminals for connection to 15 -core VGA cable

Order no.
Packing
unit


1 on page T65

USB/3.5 mm audio socket outlet polar white, velvety *33 $15396089 \quad 10$
Frequency range audio $20 \mathrm{~Hz}-20 \mathrm{KHz}$; Transmission rate (USB) max. $480 \mathrm{MBit} / \mathrm{s}$

Especially suitable for connecting mobile devices, such as mobile phones or MP3 players (mini audio), digital cameras and computer peripherals (USB 2.0).

Installation recommendation:
Company name Kaiser: „Electronic-Dose" for compliance with the permissible bending radii, Art.-No. 1068-02 or 9062-74
Company name Fränkische: „Multimedia-Rohr" for laying pre-assembled connection cable, Art.-No. 294.10.092

Please notice the maximum cable length of the cableand devices manufacturer.

- without spreader claws

■ USB double jack type A, USB 2.0 capable

- double jack gold-plated 3.5 mm , stereo


High definition socket outlet polar white, velvety *33 15426089
Video bandwidth max. 165 MHz ;
Resolution max. 1080p ( $1920 \times 1080 \mathrm{px}$ );
Frequency range (vertical) $50-85 \mathrm{~Hz}$;
Transmission rate max. $8,16 \mathrm{GBit} / \mathrm{s}$
Especially suitable for connecting digital high-end entertainment electronics devices for transmission of high-resolution audio and video signals, such as satellite receivers and DVD players, to LCD or plasma screens.

Installation recommendation:
Company name Kaiser: „Electronic-Dose" for compliance with the permissible bending radii, Art.-No. 1068-02 or 9062-74
Company name Fränkische: „Multimedia-Rohr" for laying pre-assembled connection cable, Art.-No. 294.10.092

Please notice the maximum cable length of the cableand devices manufacturer.

- gold-plated contacts
- without spreader claws
- with $\mathrm{HDMI}^{\top \mathrm{M}}$ double jack type A, supports $\mathrm{HDMI}^{\top \mathrm{TM}}$ technology (V 1.3 with Deep Color)

Order no.
Order no.


High definition socket with $90^{\circ}$ plug connection
polar white, velvety *3315436089 10
Video bandwidth max. 165 MHz;
Resolution max. 1080p (1920 x 1080 px);
Frequency range (vertical) $50-85 \mathrm{~Hz}$;
I on page T65
Transmission rate max. $8,16 \mathrm{GBit} / \mathrm{s}$
Especially suitable for connecting digital high-end entertainment electronics devices for transmission of high-resolution audio and video signals, such as satellite receivers and DVD players, to LCD or plasma screens.

Installation recommendation:
Company name Kaiser: „Electronic-Dose" for compliance with the permissible bending radii, Art.-No. 1068-02 or 9062-74
Company name Fränkische: „Multimedia-Rohr" for laying pre-assembled connection cable, Art.-No. 294.10.092

Please notice the maximum cable length of the cableand devices manufacturer.

- gold-plated contacts
- jack on rear, angled $90^{\circ}$
- without spreader claws

■ with $\mathrm{HDMI}^{T M}$ double jack type A, supports $\mathrm{HDMI}^{T M}$ technology (V 1.3 with Deep Color)

## Audio outlets



## Central plate for XLR round connectors D series

polar white, matt/velvety 1412190910
Cut-out diameter 23,6 mm;
Distance between screws (horizontal/vertical) 19 / 24
mm
For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.

Attention!
Use only with intermediate ring for central plate from the corresponding range.

Circular plug-in connector:
Cannon;
Deltron;
Farnell;
Hirose;
Monacor;
Neutrik;
RS Components

- with supporting plate
$\square$ speakon and jack connector
- without spreader claws
Centre plate for loudspeaker socket outlet and
miniature connector insert
polar white, velvety, 11966089
1gang, 1 knock out

opening $\quad$\begin{tabular}{l}
For miniature connector insert order no. 4505 <br>

| For stereo loudspeaker socket outlet order |
| :--- |
| no. 4505 01 |
| For loudspeaker socket outlet High End order |
| no. 4505 02 |
| For BNC/TNC connector insert order no. 4577, 4579 | <br>

\hline

 

Centre plate for aerial socket 2- and 3-hole <br>
polar white, velvety

$\quad$

For aerial socket 2-hole single box order no. 4502 <br>
For aerial socket 2-hole throughpass socket order <br>
no. 4515 <br>
For aerial socket 3-hole single box order no. 4522 <br>
For aerial socket 3-hole throughpass socket order <br>
no. 4523, 4593

$\quad$

■ with knock out SAT input
\end{tabular}



## Central plate for aerial socket 4-hole

 polar white, matt/velvety 14841909For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.

## Attention!

Use only with intermediate ring for central plate from the corresponding range.
For aerial socket 4-hole single box order no. 4594
Aerial sockets:
Ankaro;
Astro;
Axing;
Delta;
Schwaiger
■ with 2 additional SAT outputs (F-sockets)


Central plate for aerial socket 4-hole polar white, matt/velvety 1483190910

Attention!
Use only with intermediate ring for central plate from the corresponding range.

Aerial sockets:
Hirschmann

- with 2 additional SAT outputs (F-sockets)


Central plate for broadband modem box

polar white, matt/velvety 14391909 ..... 10

Attention!
Use only with intermediate ring for central plate from the corresponding range.

Broadband modem socket:
Wisi
■ with additional multimedia output

Order no.
Order no.
Packing
unit
INTERMEDIATE RINGS


Adapter ring for centre plate $50 \times 50 \mathrm{~mm}$
polar white, velvety 11096079

Attention!
Not suitable for Berker central plates.
For centre plate as per DIN 49075

- for other centre plates with external size $50 \times 50 \mathrm{~mm}$



Centre plate for TAE socket outlet and loudspeaker connection box
polar white, velvety 10336089
For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.
For USB charging socket 230 V order no. 2600 0..
For loudspeaker connection box order no. 4572 .., 4573 ..
For USB data interface flush-mounted order no. 75040004

EAD socket outlets:
Drivex;
Fröhlich + Walter;
Intracom;
TAE and FCC overvoltage protection sockets:
Dehn;
FCC socket outlets:
Dätwyler;
Rutenbeck


Centre plate for RTT socket outlet „Belgium"
polar white, velvety 6711036089


Centre plate for FCC socket outlet
polar white, velvety 14076089
For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.
For FCC socket outlet order no. 4538, 4568
For FCC socket outlet shielded order no. 4554, 4586

FCC socket outlets:
AMP;
Brand-Rex;
BTR;
Crack-IT;
Rutenbeck;
Telegärtner
■ with $45^{\circ}$ oblique outlet

- for 1 gang socket outlet cat.3, cat.5e and cat. 6

Centre plate for FCC/E-DAT design/Telekom
ISDN socket outlet
polar white, velvety $\mathbf{1 4 0 9 6 0 8 9} 10$

For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.
For FCC socket outlet order no. 4539, 4562, 4592
For FCC socket outlet shielded order no. 4555, 4587
ISDN socket outlets (Rutenbeck):
Telekom;
FCC socket outlets:
AMP;
Brand-Rex;
BTR;
CobiNet;
Corning;
Dätwyler;
EFB Electronic;
Elmat/Süveg (STL-Gruppe);
Komos;
Leoni Kerpen;
Rutenbeck;
Setec;
Telegärtner
■ with $45^{\circ}$ oblique outlet
■ for 2 gang socket outlet cat.3, cat.5e and cat. 6

Order no.
Packing unit

Central plate for 3 MINI-COM modules polar white, matt/velvety 1427190910

For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.

## Attention!

Use only with intermediate ring for central plate from the corresponding range.
For mini jack order no. 1980, 1984, 1985
For cinch module set order no. 1989
For blank module order no. 1990
For video cinch module order no. 1992
For S-Video module order no. 1993
For VGA module order no. 1994
Modules:
Panduit

- with supporting plate

■ for Mini-Com jacks cat.3, cat.5e, cat.6, cat. 6 10Gig
■ for Mini-Com fibre-optic modules

- for Mini-Com BNC connector modules

■ for Mini-Com 3.5 mm stereo connection/coupling modules

- for mini-com speaker wire/banana plug modules
- for Mini-Com F-plug coupling modules

■ for Mini-Com Cinch connection/coupling modules
$\square$ for Mini-Com S-Video connection/coupling modules
$\square$ for Mini-Com D-Subminiature connectors 15pole
■ for Mini-Com dummy modules 1 gang

- with $30^{\circ}$ oblique outlet
- without spreader claws



## Central plate for 1 or 2 single modules

 Reichle\&De-Massaripolar white, matt/velvety 14721909
For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.

## Attention!

Use only with intermediate ring for central plate from the corresponding range.

## Modules:

Reichle\&De-Massari
■ with supporting plate

- for connecting modules RJ45 cat.5e and cat. 6

■ for fibre-optic modules

- with $30^{\circ}$ oblique outlet
- without spreader claws

Order no.


Central plate for double modules Reichle\&De-Massari
polar white, matt/velvety 14611909

For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.

## Attention!

Use only with intermediate ring for central plate from the corresponding range.

## Modules:

Diamond;
Reichle\&De-Massari
■ with supporting plate

- for connecting modules RJ45 cat.5e and cat. 6
- for fibre-optic modules

■ with $30^{\circ}$ oblique outlet

- without spreader claws


Central plate for AMP modular jacks
polar white, matt/velvety 14631909
Indexing dimension $(\mathrm{W} \times \mathrm{H})$ approx. $14,7 \times 20,7 \mathrm{~mm}$
Shielded versions touch each other.
For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.

## Attention!

Use only with intermediate ring for central plate from the corresponding range.

MT-RJ jack:
AMP;
Intracom;
Telena;
Modular jacks:
CobiNet;
EFB Electronic;
Schumann;
Standard 110 Connect jack:
AMP;
SL series toolless jack:
AMP;
SL series 110 Connect Jack:
AMP;
SL series toolless jack with dust protection:
AMP
■ with supporting plate
■ for AMP modular jacks series 110 Connect cat.3, cat.5, cat.5e and cat. 6
$\square$ for AMP fibre-optic couplings MT-RJ jacks

- 2 gang, with $30^{\circ}$ oblique outlet

■ without spreader claws

Order no.
Order no.
Packing
Central plate for Krone modular jacks polar white, matt/velvety 14641909
Indexing dimension ( $\mathrm{W} \times \mathrm{H}$ ) approx. $14,7 \times 19,4 \mathrm{~mm}$
For detailed information on relevant articles of the
listed manufacturers please see Berker online catalogue.

Attention!
Use only with intermediate ring for central plate from the corresponding range.

Modular jacks:
3M; Asyco;
Dätwyler; Erni;
Harting; Hubbell;
ICS; Krone;
Leoni Kerpen;
Nexans; Setec;
Telegärtner;
Thomas \& Betts

- with supporting plate

■ for Krone modular jacks cat. 5 , cat. 5 e and cat. 6

- for Krone fibre-optic couplings MT-RJ jacks
- for 3M fibre-optic couplings Volition
- 2gang, with $30^{\circ}$ oblique outlet
- without spreader claws


Centre plate with dust protection slider and labelling field
polar white, velvety 1170608910
Labelling field height arranged for 6 mm P-touch strips.
For supporting plate 1 gang order no. 4540 ..

- for supporting plates with coloured mount 1gang


Centre plate with dust protection sliders and labelling field
polar white, velvety 1181608910
Labelling field height arranged for 6 mm P-touch strips.
For supporting plate 2gang order no. 4541 ..

- for supporting plates with coloured mounts 2gang



## Central plate for AMP-ACO

polar white, matt/velvety 14941909
10
For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.

Attention!
Use only with intermediate ring for central plate from the corresponding range.
Labelling field not usable.
ACO and CO Plus inserts:
AMP, order no. 0-1394580-1, 2-1394580-1,
0-0336627-1, 2-0336627-1, 0-0336627-3

- cat. 5 , cat. 6 and cat. 7
- central plates plug-in fixing


Central plate for AMP-ACO with labelling field
polar white, matt/velvety 14951909
10
For detailed information on relevant articles of the listed manufacturers please see Berker Online Catalogue.
Labelling field height arranged for 6 mm P-touch strips.

Attention!
Use only with intermediate ring for central plate from the corresponding range.

```
ACO and CO Plus inserts:
AMP, order no. 0-0336627-1, 2-0336627-1,
0-0336627-3
■ cat. 5 , cat. 6 and cat. 7
```



Centre plate for AMP-ACO and Siemens SML cabling system with labelling field polar white, velvety 11536089 10

For detailed information on relevant articles of the listed manufacturers please see Berker Online Catalogue.

Labelling field height arranged for 6 mm P-touch strips.

ACO and CO Plus inserts:
AMP, order no. 0-1394582-1, 0-1394763-1,
2-1394582-1;
Schumann;
Telena;
SML inserts:
Siemens

- with supporting plate
- cat. 5 , cat. 6 and cat. 7
- with $30^{\circ}$ oblique outlet
- for screw cover
- without spreader claws



## Central plate for fibre-optic couplings Simplex

 STpolar white, matt/velvety 14921909

For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.

Attention!
Use only with intermediate ring for central plate from the corresponding range.

Fibre-optic couplings:
Ackermann;
AMP;
Brand-Rex;
BTR;
CobiNet;
Corning;
Diamond;
Drahtex;
Huber+Suhner;
Quante;
Telegärtner

- with supporting plate
- with $30^{\circ}$ oblique outlet
- for 2 fibre-optic couplings
- without spreader claws

Order no.
Order no.


Central plate for fibre-optic couplings Duplex
SC
polar white, matt/velvety 14801909
10

For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.
Attention!
Use only with intermediate ring for central plate from the corresponding range.

Fibre-optic couplings:
Ackermann; AMP;
Brand-Rex; BTR;
CobiNet; Corning;
Diamond; Drahtex;
FiberCraft; Huber+Suhner;
Krone; Quante; Telegärtner
■ with supporting plate

- with $30^{\circ}$ oblique outlet
$\square 1$ knock out opening
- for 1 or 2 fibre-optic couplings

■ without spreader claws

## Central plate for 1 D-subminiature connector

polar white, matt/velvety 1411190910
D-subminiature connectors see module inserts.
Attention!
Use only with intermediate ring for central plate from the corresponding range.
For D-subminiature connector order no. 1834, 1835, 1839
For mounting adapter order no. 1841, 1842

- with supporting plate
- without spreader claws



## Central plate for 2 D-subminiature connector

polar white, matt/velvety 14701909
D-subminiature connectors see module inserts.
Attention!
Use only with intermediate ring for central plate from the corresponding range.
Labelling field not usable.
For D-subminiature connector order no. 1834, 1835, 1839
For mounting adapter order no. 1841, 1842

- with supporting plate
- without spreader claws


## COMMUNIGATION TECHNICS

Data connector housings


Data connector housing with labelling field
polar white, velvety \#11106089 10
Labelling field height arranged for 6 mm P-touch
strips.
Mounting plates see acessories order no. 1111 .., 1112 ..

■ with supporting plate

- for mounting plates
- without spreader claws

Order no.
Packing
Order no.
Packing
unit


Central plate for double pole socket outlet
for floating output
polar white, matt/velvety 14031909
Attention!
Use only with intermediate ring for central plate from the corresponding range.
For double pole socket outlet for floating output order no. 1061

For double pole socket outlet according to DIN 42801
■ with imprint
Central plate for 6pole socket outlet polar white, matt/velvety 14741909

Attention!
Use only with intermediate ring for central plate from the corresponding range.

Nurse call system:
Ackermann, clino opt 99, order no. 71008C3;
Nurse call systems:
Ackermann, clino opt 90, clino phon 95, order no. 71008C;
Siedle, order no. AD 306-0;
6 pole socket outlets:
Hirschmann, Medu 600, Medu 600 GSK
Messrs. Ackermann


Centre plate for databus termination splitter/ empty unit
polar white, velvety 1204608910

Nurse call system:
Ackermann, clino opt 90, 99 / clino phon 95, order no. 72642B;
Nurse call systems:
Ackermann, clino opt 90, 99 / clino phon 95,
order no. 72642C, 72639A, 71197A
■ centre plate plug-in fixing
Centre plate for databus connection unit with plug-in opening
polar white, velvety 12986089

Nurse call system:
Ackermann, clino opt 99, order no. 73070A
■ centre plate plug-in fixing
Centre plate for plug-and-socket connector
polar white, velvety $1305 \mathbf{6 0 8 9} 10$

Nurse call system:
Ackermann, clino opt 99, order no. 74189A
■ a-coded for dropping plug-and-socket connector

- centre plate plug-in fixing

Centre plate with 2 plug-in openings and imprint
polar white, velvety 12446089

Nurse call system:
Ackermann, clino opt 99, order no. 73075C, 73020G, 73021G, 73075D

- for call unit with 2 diagnostic plug-in contacts

■ centre plate plug-in fixing
Centre plate with red call push-button at top and a plug-in opening
polar white, velvety 12176089

Nurse call system:
Ackermann, clino opt 99, order no. 73071E,
73071E2, 73075A, 73073E
■ for call push-button with plug-in contact

- for call module with call push-button and monitored auxiliary plug-in contact
- button with lens

■ centre plate plug-in fixing


Centre plate with red call button
and 2 plug-in openings
polar white, velvety 12186089

Nurse call system:
Ackermann, clino opt 99, order no. 73071D,
73071D2, 73075B, 73073D
■ for call push-button with diagnostic and auxiliary plug-in contact
■ for call module with call push-button and plug-in contacts

- button with lens
- with imprint
- centre plate plug-in fixing


Centre plate with red call push-button at top
polar white, velvety $1216 \mathbf{6 0 8 9} 10$

Nurse call system:
Ackermann, clino opt 99, order no. 73071F, 73071F2,
73073F
$\square$ for call module with call push-button
■ button with lens

- centre plate plug-in fixing


Centre plate with red call push-button at bottom
polar white, velvety 12196089

Nurse call system:
Ackermann, clino opt 99, order no. 73022A, 73022A2
■ for call push-button

- button with lens
- centre plate plug-in fixing

Order no.
Packing
unit
Centre plate with green shut-off button
polar white, velvety 12516089
10

Nurse call system:
Ackermann, clino opt 99, order no. 73642C

- for shut-off push-button
- button with lens
- centre plate plug-in fixing


## Centre plate with yellow shut-off button

polar white, velvety 1252608910

Nurse call system:
Ackermann, clino opt 99, order no. 73642D

- for shut-off push-button
- button with lens
- centre plate plug-in fixing


Centre plate with acknowledge button white polar white, velvety $13086089 \quad 10$

Nurse call system:
Ackermann, clino opt 99, order no. 73640J, 73640J2
for office unit

- button with lens

■ with imprint „SU-AUS WARTEN"

- centre plate plug-in fixing


## Centre plate with red call button and green

 shut-off buttonpolar white, velvety 1249608910

Nurse call system:
Ackermann, clino opt 99, order no. 73642B2

- for call push-button and shut-off push-button
- buttons with lens
- centre plate plug-in fixing


Centre plate with green and yellow shut-off button
polar white, velvety $12536089 \quad 10$

Nurse call system:
Ackermann, clino opt 99, order no. 73642E

- for shut-off push-button
- buttons with lens
- centre plate plug-in fixing

Order no.


Centre plate for pneumatic call switch with lens
polar white, velvety $12366089 \quad 10$

Nurse call system:
Ackermann, clino opt 99, order no. 70006C;
Nurse call systems:
Ackermann, clino opt 90, 99 / clino phon 95,
order no. 70006A, 70006B

- centre plate plug-in fixing


Nurse call systems:
Ackermann, clino opt 90, 99 / clino phon 95,
order no. 70045A3, 70046A3, 70046A

- for pullcord push-button with pullcord and knob
- centre plate plug-in fixing


Centre plate for radio programme system with small sound system
polar white, velvety 13006089
10

Nurse call systems:
Ackermann, clino opt 90, 99 / clino phon 95,
order no. 73120C, 73120 H

- for earpiece and volume control
- with imprinted symbol curve
- centre plate plug-in fixing


Centre plate for radio programme selector switch
polar white, velvety 13016089
10

Nurse call systems:
Ackermann, clino opt 90, 99 / clino phon 95,
order no. 73120A
■ with imprint „0-1-2-3-4-5"

- centre plate plug-in fixing


## Berker K.1/K. 5

## Surface range, flush-mounted system

Sharp edges and square corners - with these clear contours and the deliberate renunciation of all other design attributes, the Berker K.1's straight-lined balance gives any room a timeless character. As a premium variant in stainless steel, the Berker K. 5 is recommended for anyone who values fine forms and the highest quality materials in equal measure.

- Combination frames allow you to combine up to 5 devices vertically or horizontally
K. 1
- High breaking resistance and long life
- Available surfaces: glossy in polar white and white and matt in anthracite and aluminium


## K. 5

- Stainless steel version of the classic Berker K. 1 design
- Unique combination of sharp-edged contours and matt-shiny surface

Marked items are suitable for splash-protected flush-mounted IP44 installation when used in conjunction with the corresponding sealing set.


| Frames | 194-195 | Universal series touch dimmers | 210 |
| :---: | :---: | :---: | :---: |
| Surface-mounted housings | 195 | Berker Light Control | 211-216 |
| Sealings IP44 | 196-197 | Thermostats | 216-217 |
| Socket outlets | 198-204 | Rollotec | 218-220 |
| Covers switches/push-buttons | 204-208 | Entertainment electronics | 221-222 |
| RCD Protection switch | 208 | TV/Audio/Video | 222-224 |
| Blank plates | 208 | Intermediate rings | 224-225 |
| Pilot lamps | 208-209 | Data/Tele communications | 225-230 |
| Timers | 209-210 | Signalling and command units | 230 |
| Rotary dimmers | 210 | Hospital installation | 230-232 |

Order no.
Packing
Order no.
Packing
$\left.\begin{array}{llcc} & \text { Order no. } & \text { Packing } \\ \text { unit }\end{array}\right]$

IP44 protection when using a sealing set order no. 1010 7..


## Frame

polar white, glossy,
1gang
polar white, glossy,
2gang vertical polar white, glossy,
I on page T69 3gang vertical
polar white, glossy,
4gang vertical
polar white, glossy,
5gang vertical
polar white, glossy,
2gang horizontal
polar white, glossy,
3gang horizontal
polar white, glossy,
4gang horizontal
polar white, glossy,

| 13137009 | 10 |
| :--- | :--- |
| 13237009 | 2 |
| 13337009 | 2 |
| 13437009 | 2 |
| 13537009 | 2 |
| 13637009 | 2 |
| 13737009 | 2 |
| 13837009 | 2 |
| 13937009 | 2 |

sgang horizontal
IP44 protection when using a sealing set order no. 1010 7..


Frame

| anthracite, matt, 1gang | 13137006 | 10 |
| :---: | :---: | :---: |
| anthracite, matt, 2gang vertical | 13237006 | 10 |
| anthracite, matt, 3gang vertical | 13337006 | 2 |
| anthracite, matt, 4gang vertical | 13437006 | 2 |
| anthracite, matt, 5gang vertical | 13537006 | 2 |
| anthracite, matt, 2gang horizontal | 13637006 | 10 |
| anthracite, matt, 3gang horizontal | 13737006 | 2 |
| anthracite, matt, 4gang horizontal | 13837006 | 2 |
| anthracite, matt, 5gang | 13937006 | 2 |

horizontal
IP44 protection when using a sealing set order no. 1010 7..


## FRAME WITH LARGE CUT-OUT

Frame with large cut-out
white, glossy 130970021

Not suitable for surface-mounted housing.
For push-button 4gang order no. 75164370
For push-button 4gang comfort order no. 75164770
1 on page T69 For light scene push-button 8 gang order
no. 75168870
For push-button 3gang with RTR order no. 75663770
For push-button 5gang with RTR order no. 75665770

■ for vertical mounting


Frame with large cut-out
polar white, glossy 130970091

Not suitable for surface-mounted housing
For push-button 4gang order no. 75164370
For push-button 4 gang comfort order no. 75164770
I on page T69 For light scene push-button 8gang order
no. 75168870
For push-button 3gang with RTR order no. 75663770
For push-button 5gang with RTR order no. 75665770

■ for vertical mounting

Order no.
Packing
Order no.


I on page T69
For push-button 4gang comfort order no. 75164775
For light scene push-button 8gang order no. 75168875
For push-button 3gang with RTR order
no. 75663775
For push-button 5gang with RTR order no. 75665775

■ for vertical mounting


1) on page T69

Frame with large cut-out
aluminium, matt
13097024
1
Not suitable for surface-mounted housing.
For push-button 4gang order no. 75164374
For push-button 4gang comfort order no. 75164774
For light scene push-button 8gang order
no. 75168874
For push-button 3gang with RTR order
no. 75663774
For push-button 5gang with RTR order
no. 75665774
■ for vertical mounting


1 on page T69

Frame with large cut-out
stainless steel 13097004 1

Not suitable for surface-mounted housing.
For push-button 4gang order no. 75164373
For push-button 4gang comfort order no. 75164773
For light scene push-button 8gang order
no. 75168873
For push-button 3gang with RTR order
no. 75663773
For push-button 5gang with RTR order no. 75665773
$\square$ for vertical mounting

## SURFACE-MOUNTED HOUSINGS



Surface-mounted housing 1gang
white, glossy 10417002
polar white, glossy
10417009
10
polarw.te, glossy
10417006
aluminium, matt 10417024
stainless steel,
1041700410
lacquered
Installation depth 36 mm
For suitable tube-entries and replacement for cable and duct entries refer to the dry surface-mounted range.

Flush-mounted devices can be used with the surfacemounted housings for surface-mounted installation.
$\square$ with cable and duct entry

- entry at top and bottom possible

■ suitable for mounting on flammable base surface


| Surface-mounted housing 2gang |  |  |
| :--- | :---: | :---: |
| white, glossy | $\mathbf{1 0 4 2} \mathbf{7 0} \mathbf{0 2}$ | 5 |
| polar white, glossy | $\mathbf{1 0 4 2} \mathbf{7 0} \mathbf{0 9}$ | 5 |
| anthracite, matt | $\mathbf{1 0 4 2} \mathbf{7 0} \mathbf{0 6}$ | 5 |
| aluminium, matt | $\mathbf{1 0 4 2} \mathbf{7 0} \mathbf{2 4}$ | 5 |
| stainless steel, | $\mathbf{1 0 4 2} \mathbf{7 0} \mathbf{0 4}$ | 5 |
| lacquered |  |  |
| Surface-mounted housing 3gang |  |  |
| white, glossy | $\mathbf{1 0 4 3} \mathbf{7 0} \mathbf{0 2}$ | 5 |
| polar white, glossy | $\mathbf{1 0 4 3} \mathbf{7 0} \mathbf{0 9}$ | 5 |
| anthracite, matt | $\mathbf{1 0 4 3} \mathbf{7 0} \mathbf{0 6}$ | 5 |
| aluminium, matt | $\mathbf{1 0 4 3} \mathbf{7 0} \mathbf{2 4}$ | 5 |
| stainless steel, | $\mathbf{1 0 4 3} \mathbf{7 0} \mathbf{0 4}$ | 5 | lacquered

Installation depth 36 mm
For suitable tube-entries and replacement for cable and duct entries refer to the dry surface-mounted range.

Flush-mounted devices can be used with the surfacemounted housings for surface-mounted installation.
$\square$ with cable and duct entry
entry at top, bottom and at each side in the middle possible
■ for vertical mounting
■ suitable for mounting on flammable base surface


Surface-mounted housing 2gang
white, glossy 10527002
polar white, glossy 10527009
anthracite, matt 10527006
aluminium, matt 10527024
stainless steel, 10527004
lacquered
Surface-mounted housing 3gang

white, glossy 10537002
polar white, glossy 105370095
anthracite, matt 10537006
aluminium, matt 10537024
stainless steel, $\quad 10537004$
5
lacquered
Installation depth 36 mm

For suitable tube-entries and replacement for cable and duct entries refer to the dry surface-mounted range.

Flush-mounted devices can be used with the surfacemounted housings for surface-mounted installation.
$\square$ with cable and duct entry
■ entry at top, bottom and at each side in the middle possible

- for horizontal mounting
- suitable for mounting on flammable base surface


Application
P44 protection is reached by using the sealing set and installing

- in flush-mounted wall box according to DIN 49073 part 1
- on smooth, even, vertically walls
- in finery-concisely inserted flush mounted wall boxes

P44 protection is not guaranteed for floor assembly, ceiling mounting and assembly in hollow wall boxes.

P44 protection is reached only if all installed articles are IP44 suitable (check markings) and the installation instruction is observed.

Order no.
Packing
unit

## SEALINGS IP44

Sealings
Sealing set K. 1/K. 5/Q. 1
for socket outlets and centre plates transparent 10107200 1

For blind plug with centre plate and screw fixing order no. 100960 79, 10457.
For blind plug with centre plate order no. 100960 89, $10457 . ., 67104570$.., 6710096089
For centre plate with rotary knob for rotary switch for shutters order no. 107771 .., 10806089
For centre plate with rotary knob for 3-step switch order no. 108460 89, 1087 7.., 1088 7.., 10966089 For centre plate with setting knob for rotary dimmer order no. 11357 .., 11376089
For centre plate with setting knob for speed controller order no. 1135 7.., 11376079
For centre plate for pilot lamp E14 order no. 1167 7.., 11986089
For SCHUKO socket outlet with hinged cover order no. 475172 .
For SCHUKO socket outlet with hinged cover and labelling field order no. 475272 ..

- for socket outlets with self-closing hinged covers
- for 3-step switches
- for rotary switch for shutters
- for pilot lamp E14
$\square$ for rotary dimmer, rotary dimmer LV and Tronic rotary dimmer
for universal rotary dimmer and universal rotary dimmer extension unit
- for speed controllers

Order no.
Packing
unit
Sealing set K. 1/K. 5/Q. 1
for rocker switch/rocker push-button transparent 10107100

1

For rocker order no. 1405 7.., 16206089
For rocker with imprinted symbol arrows order no. 14057 .., 16206079
For rocker with 5 lenses attached order no. 141570 .. For rocker with 5 lenses attached and labelling field order no. 141571 ..
For rocker with red lens and imprint „0" order no. 1417 7..
For rocker with imprint „0" order no. 1425 7.., 1622 6089
For rocker with red lens and imprint „Heizung Notschalter" order no. 14887115
For rocker with 5 lenses attached and large labelling field order no. 1496.
For rocker with imprinted symbol light order no. 16206049
For rocker with imprinted symbol bell order no. 16206059
For rocker with imprinted symbol door order no. 16206069
For rocker with orange lens and imprint
„Heizung Notschalter" order no. 16216069
For rocker with 2 lenses attached and imprinted symbol light order no. 16216079
For rocker with 2 lenses attached order
no. 16216089
For rocker with orange lens and imprint „0" order no. 16246089
For rocker with labelling field order no. 16266089
For rocker with 2 lenses attached and labelling field order no. 162860 ..
For rocker with orange lens and touchable symbol light order no. 16516049
For rocker with orange lens and touchable symbol bell order no. 16516059
For rocker with orange lens and touchable symbol door order no. 16516069
For rocker with 2 lenses attached and guide for mouth-held rod order no. 16616049
For rocker with 2 lenses attached and large labelling field order no. 1696.

- with IP44 fixing piece to screw on
$\square$ for rocker switches change-over, intermediate, 2pole on/off 10 AX
- for rocker push-buttons
- for push-button BCU 1gang and group push-button BCU 1gang


Sealing set K. 1/K. 5/Q. 1
for key switch/key push-button
transparent
10107000
1

For centre plate for key switch/push-button for shutters order no. 1504 7.., 15066089
For centre plate for key switch/push-button order no. 15057 .., 15076089

- for key switches/key push-buttons for profile half cylinders with additional earth contact
- for key switches/key push-buttons for shutters for profile half cylind. with additional earth cont.

Order no.
Order no.
Packing


I on page T6
SCHUKO socket outlet with imprint
red, glossy, $\quad 47157115$
with imprint „EDV"
green, glossy,
47157113
with imprint „SV"
orange, glossy,
47157114
10
$16 \mathrm{~A}, 250 \mathrm{~V}$ ~
Insert colour-coded.

Connection terminals IEC 60884-1

- with plug-in terminals


SCHUKO socket outlet with labelling field
white, glossy
47397002
polar white, glossy $\quad 4739700910$
anthracite, matt 47397006
aluminium, matt 47397024
stain 47397024
red, glossy 47397015
green, glossy $\quad 47397013$
orange, glossy $\quad 47397014$
white, glossy, enhanced 4738700210 contact protection IEC 60884-1
polar white, glossy, 4738700910
enhanced contact
protection IEC 60884-1
anthracite, matt, 47387006
enhanced contact protection IEC 60884-1
aluminium, matt, 47387024
enhanced contact
protection IEC 60884-1
stainless steel, 47387004
lacquered, enhanced
contact protection
IEC 60884-1
$16 \mathrm{~A}, 250 \mathrm{~V}$ ~
The insert of the red, green and orange socket outlets is colour-coded.

Labelling field height arranged for 6 mm P-touch strips.

Connection terminals IEC 60884-1

- with plug-in terminals

Order no.
Packing
Order no.
unit


I on page T6

SCHUKO socket outlet with labelling field and imprint

| red, glossy, <br> with imprint „EDV" | $\mathbf{4 7 3 9 7 1 1 5}$ | 10 |
| :--- | :---: | :---: |
| green, glossy, <br> with imprint „SV" | $\mathbf{4 7 3 9 7 1 1 3}$ | 10 |
| orange, glossy, <br> with imprint „ZSV" | $\mathbf{4 7 3 9 7 1 1 4}$ | 10 |

16 A, 250 V~

Insert colour-coded.
Labelling field height arranged for 6 mm P-touch strips.

Connection terminals IEC 60884-1
with plug-in terminals


## SCHUKO socket outlet $45^{\circ}$ with labelling field

| white, glossy | $\mathbf{4 7 2 8 7 1 0 2}$ | 1 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{4 7 2 8 7 1 0 9}$ | 1 |
| anthracite, matt | $\mathbf{4 7 2 8 7 1 0 6}$ | 1 |
| aluminium, matt | $\mathbf{4 7 2 8 7 1 2 4}$ | 1 |
| stainless steel, | $\mathbf{4 7 2 8 7 1 0 4}$ | 1 | lacquered

$16 \mathrm{~A}, 250 \mathrm{~V} \sim$
Specially suited for combining several socket outlets if right angle plugs are used.

Labelling field height arranged for 6 mm P-touch strips.

Connection terminals IEC 60884-1

- for diagonal installation
with plug-in terminals


SCHUKO socket outlet indicator lamp and imprint
green, glossy,
with imprint „SV"
orange, glossy,
41267113
10

41267114
I on page T6
$16 \mathrm{~A}, 250 \mathrm{~V} \sim$

Neon lamp current 1,5 mA
Insert colour-coded.
Replacement neon lamp unit see module inserts / accessories order no. 1609

Execution SV, ZSV to VDE 0100-710
Connection terminals IEC 60884-1

- with neon lamp unit
- with screw-in lift terminals


Replacement neon lamp unit see module inserts / accessories order no. 1609

Connection terminals IEC 60884-1

- with neon lamp unit
- with screw-in lift terminals


1 on page T6
SCHUKO socket outlet with indicator lamp, labelling field and imprint
green, glossy, with 41617113
imprint „SV"
orange, glossy, with 4161711410 imprint „ZSV"
$16 \mathrm{~A}, 250 \mathrm{~V} \sim$

Neon lamp current 1,5 mA
Insert colour-coded.
Labelling field height arranged for 6 mm P-touch strips.

Replacement neon lamp unit see module inserts / accessories order no. 1609

Execution SV, ZSV to VDE 0100-710
Connection terminals IEC 60884-1
$\square$ with neon lamp unit

- with screw-in lift terminals


## SCHUKO-socket outlets with safety device



I on page T33

SCHUKO socket outlet with overvoltage protection and labelling field

| white, glossy | 41527102 | 1 |
| :---: | :---: | :---: |
| polar white, glossy | 41527109 | 1 |
| anthracite, matt | 41527106 | 1 |
| aluminium, matt | 41527124 | 1 |
| stainless steel, lacquered | 41527104 | 1 |
| red, glossy | 41527115 | 1 |

red, glossy
$16 \mathrm{~A}, 250 \mathrm{~V} \sim 50 / 60 \mathrm{~Hz}$

The insert of the red socket outlet is colour-coded.
Labelling field height arranged for 6 mm P-touch strips.

Overvoltage protection to EN 61643
and VDE 0675-6, -11
Connection terminals IEC 60884-1

- with imprint

■ with indicator LED for „on/error"
$\square$ with acoustic fault signal

- with screw terminals


Order no.
Order no.


SCHUKO-socket outlets


1 on page T 6

Socket outlets without earth contact


I on page T6

Order no.

| Double SCHUKO socket outlet with cover plate |  |  |
| :---: | :---: | :---: |
| white, glossy | 47537002 | 10 |
| polar white, glossy | 47537009 | 10 |
| anthracite, matt | 47537006 | 10 |
| aluminium, matt | 47537024 | 10 |
| stainless steel, lacquered | 47537004 | 10 |
| white, glossy, enhanced contact protection IEC 60884-1 | 47297002 | 10 |
| polar white, glossy, enhanced contact protection IEC 60884-1 | 47297009 | 10 |
| anthracite, matt, enhanced contact protection IEC 60884-1 | 47297006 | 10 |
| aluminium, matt, enhanced contact protection IEC 60884-1 | 47297024 | 10 |
| stainless steel, | 47297004 | 10 |

lacquered, enhanced
contact protection IEC
60884-1
$16 \mathrm{~A}, 250 \mathrm{~V} \sim$
Assembling height 22 mm

For fitting in 1gang wall boxes according to
DIN 49073-1
Connection terminals IEC 60884-1
■ with plug-in terminals

| Socket outlet without earth contact |  |  |
| :--- | ---: | :--- |
| white, glossy | $\mathbf{6 1 6 7 1 5 \mathbf { 7 0 0 2 }}$ | 10 |
| polar white, glossy | $\mathbf{6 1 6 7 1 5 \mathbf { 7 0 } \mathbf { 0 9 }}$ | 10 |
| anthracite, matt | $\mathbf{6 1 6 7 1 5 \mathbf { 7 0 0 6 }}$ | 10 |
| aluminium, matt | $\mathbf{6 1 6 7 1 5 \mathbf { 7 0 } \mathbf { 2 4 }}$ | 10 |
| stainless steel, | $\mathbf{6 1 6 7 1 5 \mathbf { 7 0 0 4 }}$ | 10 |
| lacquered |  |  |
| 16 A, 250 V~ |  |  |
| Mirror depth 8 mm |  |  |

Order no.
Packing
unit

## Socket outlets with earth pin



Socket outlet with earth pin
white, glossy, enhanced 676575700210
contact protection
IEC 60884-1
polar white, glossy, 6765757009
enhanced contact
I on page T6 protection IEC 60884-1
anthracite, matt, 6765757006
enhanced contact protection IEC 60884-1
aluminium, matt, 6765757024
enhanced contact
protection IEC 60884-1
stainless steel, $676575 \mathbf{7 0} 04$
enhanced contact
protection IEC 60884-1
16 A, 250 V~

Connection terminals IEC 60884-1
■ 2pole + earth

- with screw-in lift terminals


I on page T6

Socket outlet with earth pin
white, glossy, enhanced 6768757002
contact protection
IEC 60884-1
polar white, glossy, 6768757009
enhanced contact protection IEC 60884-1
anthracite, matt, 6768757006
enhanced contact protection IEC 60884-1
aluminium, matt, 6768757024
enhanced contact protection IEC 60884-1
stainless steel, $676875 \mathbf{7 0} 04$
enhanced contact protection IEC 60884-1
16 A, 250 V~

Connection terminals IEC 60884-1

- 2pole + earth
- with plug-in terminals


## Connection terminals IEC 60884-1

- 2pole
- without spreader claws
- with plug-in terminals

Order no.
Order no.

## British Standard socket outlets



Socket outlet with earth contact, British Standard, can be switched off white, glossy, with 63477002 enhanced contact protection
polar white, glossy, 63477009 with enhanced contact protection
anthracite, matt, with 63477006
enhanced contact
protection
aluminium, matt, with 63477024
enhanced contact
protection
stainless steel, $\quad 63477004$
lacquered, with
enhanced contact
protection
13 A, 250 V~
Equates to standard BS 1363: Part 2.
Not for the UK.

For fitting in standard wall boxes according to DIN 49073-1

- 2pole + earth
- without neon lamp
- without spreader claws
- with screw terminals

Euro-American socket outlets


## Chinese socket outlets



Order no.
Order no.
Packing
unit
Socket outlet with earth contact, China

| polar white, glossy, $\quad 3342098009$ |
| :--- |
| enhanced contact |
| protection |
| $16 \mathrm{~A}, 250 \mathrm{~V} \sim$ |
| Only for Asia! |
| $\square$ |
| $\square$ 2pole + earth |
| $\square$ centre plate plug-in fixing |
| $\square$ without spreader claws |
| $\square$ with screw terminals |

## COVERS SWITCHES/PUSH-BUTTONS

## Rockers

| Rocker |  |  |
| :---: | :---: | :---: |
| white, glossy | 14057002 | 10 |
| polar white, glossy | 14057009 | 10 |
| anthracite, matt | 14057006 | 10 |
| aluminium, matt | 14057024 | 10 |
| stainless steel | 14057004 | 10 |
| Not suitable for rocker push-button switches. |  |  |
| IP44 protection when using sealing set order no. 10107100 |  |  |
| for rocker switches change-over, intermediate for rocker push-buttons |  |  |
| for push-button BCU 1gang | 1gang and grou | button |


| $l$ |  |  |
| :--- | :--- | :--- |
| Rocker with labelling field |  |  |
| white, glossy | $\mathbf{1 4 2 6} \mathbf{7 0 \mathbf { 0 2 }}$ | 10 |
| polar white, glossy | $\mathbf{1 4 2 6 \mathbf { 7 0 }}$ | 10 |
| anthracite, matt | $\mathbf{1 4 2 6} \mathbf{7 0} \mathbf{0 6}$ | 10 |
| aluminium, matt | $\mathbf{1 4 2 6 \mathbf { 7 0 } \mathbf { 2 4 }}$ | 10 |
| stainless steel | $\mathbf{1 4 2 6} \mathbf{7 0} \mathbf{0 4}$ | 10 |

Labelling field height arranged for 6 mm P-touch strips for labelling with names, notes etc.

Not suitable for rocker push-button switches.
IP44 protection when using sealing set order no. 10107100

■ for rocker switches change-over, intermediate
■ for rocker push-buttons
■ for push-button BCU 1gang and group push-button BCU 1gang



Rocker with 5 lens
and labelling field
white, glossy
polar white, glossy 1415710910
anthracite, matt 14157106
aluminium, matt 14157124
stainless steel
14157104
10
10

Labelling field height arranged for 6 mm P-touch strips for labelling with names, notes etc.

Lenses with symbol for light, bell, door and neutral in clear, also neutral in red transparent.

Not suitable for rocker push-button switches.
IP44 protection when using neon lamp unit order
no. 1675 .. and sealing set order no. 10107100

■ for rocker switches change-over, intermediate
■ for rocker push-buttons

- for push-button BCU 1gang and group push-button BCU 1gang
■ for illumination and monitoring circuit

Order no.
Order no.

| Rocker with $\mathbf{5}$ lenses attached and large <br> labelling field <br> white, glossy | $\mathbf{1 4 9 6} \mathbf{7 0 0 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 4 9 6} \mathbf{7 0 0 9}$ | 10 |
| anthracite, matt | $\mathbf{1 4 9 6} \mathbf{7 0} \mathbf{0 6}$ | 10 |
| aluminium, matt | $\mathbf{1 4 9 6} \mathbf{7 0} \mathbf{2 4}$ | 10 |
| stainless steel, | $\mathbf{1 4 9 6} \mathbf{7 0} \mathbf{0 4}$ | 10 |
| lacquered |  |  |

Labelling field ( $\mathrm{w} \times \mathrm{h}$ ) approx. $49,5 \times 20,3 \mathrm{~mm}$
Labelling field height arranged for 29 mm P-touch strips.

Lenses with symbol for light, bell, door and neutral in clear, also neutral in red transparent.

Not suitable for rocker push-button switches.
IP44 protection when using neon lamp unit order
no. 1675 .. and sealing set order no. 10107100

- for rocker switches change-over, intermediate
- for rocker push-buttons
- for push-button BCU 1gang and group push-button BCU 1gang
- for illumination and monitoring circuit


| Rocker with imprint „0" |  |  |
| :--- | :--- | :--- |
| white, glossy | $\mathbf{1 4 2 5} \mathbf{7 1 0 2}$ | 10 |
| polar white, glossy | $\mathbf{1 4 2 5} \mathbf{7 1 0 9}$ | 10 |
| anthracite, matt | $\mathbf{1 4 2 5} \mathbf{7 1 0 6}$ | 10 |
| aluminium, matt | $\mathbf{1 4 2 5} \mathbf{7 1 \mathbf { 2 4 }}$ | 10 |
| stainless steel | $\mathbf{1 4 2 5} \mathbf{7 1 0 4}$ | 10 |

Not suitable for rocker push-button switches.
IP44 protection when using rocker switch order no. 3032 and sealing set order no. 10107100 For rocker switch 2pole on/off order no. 3032 .. For rocker switch 3pole on/off order no. 303303

■ for multi-pole rocker switch with predefined 0 position


| Rocker with red lens and imprint „0"" |  |  |
| :--- | :--- | :--- |
| white, glossy | $\mathbf{1 4 1 7 7 1 0 2}$ |  |
| polar white, glossy | $\mathbf{1 4 1 7 7 1 0 9}$ | 10 |
| anthracite, matt | $\mathbf{1 4 1 7 7 1 0 6}$ | 10 |
| aluminium, matt | $\mathbf{1 4 1 7 7 1 2 4}$ | 10 |
| stainless steel | $\mathbf{1 4 1 7 7 1 0 4}$ | 10 |

Not suitable for rocker push-button switches.
IP44 protection when using rocker switch order no.
3032, neon lamp unit order no. 1675 .. and sealing set order no. 10107100
For rocker switch 2pole on/off order no. 3032 ..
For rocker switch 3pole on/off order no. 303303
$\square$ for multi-pole rocker switch with predefined 0 position

- for group push-button BCU 1gang

■ for illumination and monitoring circuit

## Rotary switches

Centre plate with rotary knob for rotary switch

| white, glossy | $\mathbf{1 1 5 0 \mathbf { 7 1 0 2 }}$ | 1 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 1 5 0 \mathbf { 7 1 0 9 }}$ | 1 |
| anthracite, matt | $\mathbf{1 1 5 0 \mathbf { 7 1 0 6 }}$ | 1 |
| aluminium, matt | $\mathbf{1 1 5 0 \mathbf { 7 1 2 4 }}$ | 1 |
| stainless steel | $\mathbf{1 1 5 0 \mathbf { 7 1 0 4 }}$ | 1 |

For rotary switch order no. 3862 ..

■ with imprint „0" and „""

## Rockers

## Rockers

| white, glossy | $\mathbf{1 4 3 5} \mathbf{7 0} \mathbf{0 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 4 3 5} \mathbf{7 0} \mathbf{0 9}$ | 10 |
| anthracite, matt | $\mathbf{1 4 3 5} \mathbf{7 0} \mathbf{0 6}$ | 10 |
| aluminium, matt | $\mathbf{1 4 3 5} \mathbf{7 0 \mathbf { 2 4 }}$ | 10 |
| stainless steel | $\mathbf{1 4 3 5} \mathbf{7 0} \mathbf{0 4}$ | 10 |

Not suitable for rockers push-button switches.

■ for rockers switches
■ for rockers push-buttons and group rockers pushbuttons
$\square$ for push-button BCU 2gang and group push-button BCU 2gang


Rockers with red lens

| white, glossy | $\mathbf{1 4 3 7} \mathbf{7 0} \mathbf{0 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 4 3 7} \mathbf{7 0} \mathbf{0 9}$ | 10 |
| anthracite, matt | $\mathbf{1 4 3 7} \mathbf{7 0} \mathbf{0 6}$ | 10 |
| aluminium, matt | $\mathbf{1 4 3 7} \mathbf{7 0} \mathbf{2 4}$ | 10 |
| stainless steel, | $\mathbf{1 4 3 7} \mathbf{7 0} \mathbf{0 4}$ | $\mathbf{1 0}$ |

lacquered

Not suitable for rockers push-button switches.

■ for rockers switches
■ for rockers push-buttons and group rockers pushbuttons
■ for illumination and monitoring circuit

- for push-button BCU 2gang and group push-button BCU 2gang

Rockers for rockers switch 3gang on/off

| white, glossy | $\mathbf{1 4 6 5 \mathbf { 7 0 } \mathbf { 0 2 }}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 4 6 5 \mathbf { 7 0 } \mathbf { 0 9 }}$ | 10 |
| anthracite, matt | $\mathbf{1 4 6 5 \mathbf { 7 0 } \mathbf { 0 6 }}$ | 10 |
| aluminium, matt | $\mathbf{1 4 6 5 \mathbf { 7 0 } \mathbf { 2 4 }}$ | 10 |
| stainless steel, | $\mathbf{1 4 6 5 \mathbf { 7 0 } \mathbf { 0 4 }}$ | 10 |
| lacquered |  |  |

lacquered

For rockers switch 3gang on/off order no. 633023

Order no.
Packing
unit

| Rockers with imprinted symbol arrow |  |  |
| :--- | :---: | ---: |
| white, glossy | $\mathbf{1 4 3 5 7 1 0 2}$ | 10 |
| polar white, glossy | $\mathbf{1 4 3 5 7 1 0 9}$ | 10 |
| anthracite, matt | $\mathbf{1 4 3 5 7 1 0 6}$ | 10 |
| aluminium, matt | $\mathbf{1 4 3 5 7 1 \mathbf { 2 4 }}$ | 10 |
| stainless steel | $\mathbf{1 4 3 5 7 1 0 4}$ | 10 |

For rockers switch for shutters order no. 303520
For rockers push-button for shutters order no. 503520
For push-button BCU 2gang order no. 75142000


| $l$ |  |  |
| :--- | :---: | :---: |
| Rocker with imprinted symbol arrows |  |  |
| white, glossy | $\mathbf{1 4 0 5 7 1 0 2}$ | 10 |
| polar white, glossy | $\mathbf{1 4 0 5 7 1 0 9}$ | 10 |
| anthracite, matt | $\mathbf{1 4 0 5 7 1 0 6}$ | 10 |
| aluminium, matt | $\mathbf{1 4 0 5 7 1 2 4}$ | 10 |
| stainless steel | $\mathbf{1 4 0 5 7 1 0 4}$ | 10 |

IP44 protection when using sealing set order no. 10107100
For group push-button BCU 1gang order no. 75141100

## Rockers with imprinted symbol arrows

| white, glossy | $\mathbf{1 4 3 5 7 2 0 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 4 3 5} \mathbf{7 2 0 9}$ | 10 |
| anthracite, matt | $\mathbf{1 4 3 5 7 2 \mathbf { 0 6 }}$ | 10 |
| aluminium, matt | $\mathbf{1 4 3 5} \mathbf{7 2 \mathbf { 2 4 }}$ | 10 |
| stainless steel | $\mathbf{1 4 3 5 \mathbf { 7 2 ~ 0 4 }}$ | 10 |

For group rockers push-button as 2pole rockers push-button for shutters with middle positions order no. 503404
For group push-button BCU 2gang order no. 75142100

## Barrier-free construction

V Rocker with 5 lenses attached and mouth-held rod

| white, glossy | $\mathbf{1 6 6 1 7 1 0 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 6 6 1 7 1 0 9}$ | 10 |

Lenses with symbol for light, bell, door and neutral in clear, also neutral in red transparent.

Not suitable for rocker push-button switches.
IP44 protection when using sealing set order
no. 10107100
Barrier-free building based on DIN 18025
$■$ for barrier-free construction
■ for rocker switches change-over, intermediate
■ for rocker push-buttons
■ for push-button BCU 1gang and group push-button BCU 1gang
■ for illumination and monitoring circuit

Order no.
Packing
unit


Order no.

## Pullcord switches/pullcord push-buttons

Centre plate for pullcord switch
and pullcord push-button

| white, glossy | $\mathbf{1 1 4 7} \mathbf{7 0} \mathbf{0 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 1 4 7} \mathbf{7 0} \mathbf{0 9}$ | 10 |
| anthracite, matt | $\mathbf{1 1 4 7} \mathbf{7 0} \mathbf{0 6}$ | 10 |
| aluminium, matt | $\mathbf{1 1 4 7} \mathbf{7 0} \mathbf{2 4}$ | 10 |

For pullcord push-button order no. 395619
For pullcord switch order no. 3962, 3966, 613966

## 3-step switches



Centre plate with rotary knob for 3-step switch

| white, glossy, without 0 -position | 10887102 | 1 |
| :---: | :---: | :---: |
| polar white, glossy, without 0-position | 10887109 | 1 |
| anthracite, matt, without 0 -position | 10887106 | 1 |
| aluminium, matt, without 0 -position | 10887124 | 1 |
| stainless steel, without 0 -position | 10887104 | 1 |
| white, glossy, with neutral-position | 10877102 | 1 |
| polar white, glossy, with neutral-position | 10877109 | 1 |
| anthracite, matt, with neutral-position | 10877106 | 1 |
| aluminium, matt, with neutral-position | 10877124 | 1 |
| stainless steel, with neutral-position | 10877104 | 1 |

IP44 protection when using sealing set order
no. 10107200
For 3-step switch with 0-position order no. 3861
For 3-step switch without 0-position order no. 3861 01, 61386101

- with imprint

Rotary switches/rotary push-buttons for shutters


Centre plate with rotary knob for rotary switch for shutters

| white, glossy | $\mathbf{1 0 7 7} \mathbf{7 1 0 2}$ | 1 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 0 7 7} 7109$ | 1 |
| anthracite, matt | $\mathbf{1 0 7 7} 7106$ | 1 |
| aluminium, matt | $\mathbf{1 0 7 7} \mathbf{7 1 2 4}$ | 1 |
| stainless steel | $\mathbf{1 0 7 7} \mathbf{7 1 0 4}$ | 1 |

IP44 protection when using sealing set order
no. 10107200
Interlock disk for conversion to push-button see
module inserts order no. 1861
Rotary switch for shutters order no. 3841, 3842

- with imprint

Order no.
Packing
unit
Key switches/key push-buttons for shutters


Centre plate with lock for key switch for shutters
white, glossy, key remo- 107971021
vable in mid position
polar white, glossy, 107971091
key removable in mid position
anthracite, matt, key 10797106

1
removable in mid
position
aluminium, matt, key 10797124
removable in mid
position
stainless steel, key 10797104
removable in mid
position
white, glossy, key remo- 107972021
vable in 3 positions
polar white, glossy, key
10797209
1
removable in 3 positions
anthracite, matt, key removable in 3 positions
aluminium, matt, key 107972061
removable in 3 positions
stainless steel, key 10797204
removable in 3 positions

For key switch for shutters order no. 3851, 3852

- with imprint

■ with push lock function

- with 2 keys


Centre plate with lock for key switch for shutters
white, glossy, key remo- 107973021
vable in mid position
polar white, glossy,
10797309
1
key removable in mid
position
anthracite, matt, key 10797306
removable in mid
position
aluminium, matt, key 10797324
removable in mid
position
stainless steel, key 10797304 removable in mid
position
For key switch for shutters order no. 3851, 3852

- with imprint

■ only push-button function

- with 2 keys

Order no.
Packing
Order no.
Packing
unit


| Centre plate for key switch/key push-button <br> for shutters <br> white, glossy | $\mathbf{1 5 0 4 7 1 0 2}$ | 10 |
| :--- | ---: | ---: |
| polar white, glossy | $\mathbf{1 5 0 4 7 1 0 9}$ | 10 |
| anthracite, matt | $\mathbf{1 5 0 4 7 1 0 6}$ | 10 |
| aluminium, matt | $\mathbf{1 5 0 4 7 1 2 4}$ | 10 |
| stainless steel, | $\mathbf{1 5 0 4 7 1 0 4}$ | 10 |
| lacquered |  |  |

Profile half cylinders see Module inserts.
IP44 protection when using sealing set order no. 10107000
For key switch for shutters for protection class IP44 order no. 382120
For key switch for shutters order no. 382210
For key push-button for shutters order no. 3831 10, 383210
For key push-button for shutters for protection class IP44 order no. 383120

■ with imprint

- for profile half cylinders
$■$ for master-key systems
Key switches/key push-buttons



## RCD PROTECTION SWITCH


$50 \times 50 \mathrm{~mm}$ centre plate
for RCD protection switch

| white, glossy | 149302 | 1 |
| :---: | :---: | :---: |
| polar white, glossy | 149309 | 1 |
| anthracite, matt | 14931606 | 1 |
| aluminium, matt | 14931404 | 1 |
| stainless steel, lacquered | 149304 | 1 |
| polar white, matt/velvety | 14931909 | 1 |
| brown, glossy | 149301 | 1 |
| light bronze, lacquered | 149311 | 1 |

## Attention!

Use only with intermediate ring for $50 \times 50 \mathrm{~mm}$ centre plate of the corresponding range. For RCD protection switch order no. 2844

BLANK PLATES


Blank plate with centre plate

| white, glossy, without | 10457002 | 20 |
| :--- | :--- | :--- |
| spreader claws |  |  |

polar white, glossy, 10457009 without spreader claws
anthracite, matt, without 1045700620
spreader claws
aluminium, matt, without 1045702420
spreader claws
stainless steel, without 10457004
spreader claws
white, glossy, with base 671045700210
and spreader claws
polar white, glossy, $\quad 6710457009$
with base and spreader
claws
anthracite, matt, with 671045700610
base and spreader
claws
aluminium, matt, with $671045 \mathbf{7 0} 2410$
base and spreader
claws
stainless steel, with base 671045700410
and spreader claws

IP44 protection when using sealing set order no. 10107200

■ on supporting plate without cut-out
■ centre plate plug-in fixing


Blank plate with centre plate and screw-fixing white, glossy 1045710220 polar white, glossy 1045710920 anthracite, matt aluminium, matt

10457124


IP44 protection when using sealing set order no. 10107200

- on supporting plate with large cut-out

■ for customised cut-outs or holes when installing special solutions

- space-saving for relays, etc.
- with cover plug for screw fitting

■ without spreader claws

Centre plate for push-button and pilot lamp E10

| white, glossy | $\mathbf{1 1 6 5 \mathbf { 7 0 } \mathbf { 0 2 }}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 1 6 5 \mathbf { 7 0 } \mathbf { 0 9 }}$ | 10 |
| anthracite, matt | $\mathbf{1 1 6 5 \mathbf { 7 0 } \mathbf { 0 6 }}$ | 10 |
| aluminium, matt | $\mathbf{1 1 6 5 \mathbf { 7 0 } \mathbf { 2 4 }}$ | 10 |
| stainless steel, | $\mathbf{1 1 6 5 \mathbf { 7 0 } \mathbf { 0 4 }}$ | 10 |

tainess

Cut-out diameter 27,2 mm
Push-buttons, LEDs, neon lamps and covers see module inserts.
For push-button and pilot lamp E10 order no. 5101 ..

■ centre plate plug-in fixing

Order no.
V

| Centre plate for pilot lamp E14 |  |  |
| :--- | ---: | :--- |
| white, glossy | $\mathbf{1 1 6 7} \mathbf{7 0} \mathbf{0 2}$ | 10 |
| polar white, glossy | $\mathbf{1 1 6 7} \mathbf{7 0} \mathbf{0 9}$ | 10 |
| anthracite, matt | $\mathbf{1 1 6 7} \mathbf{7 0} \mathbf{0 6}$ | 10 |
| aluminium, matt | $\mathbf{1 1 6 7} \mathbf{7 0} \mathbf{2 4}$ | 10 |
| stainless steel, | $\mathbf{1 1 6 7} \mathbf{7 0} \mathbf{0 4}$ | 10 |
| lacquered |  |  |

LEDs, incandescent lamps and covers see module inserts.
IP44 protection when using sealing set order no. 10107200
For pilot lamp E14 order no. 513102

| Cover for LED orientation light |  |  |
| :--- | ---: | ---: |
| and LED signal light |  |  |
| white, glossy | $\mathbf{1 2 4 8} \mathbf{7 0} 02$ | 1 |
| polar white, glossy | $\mathbf{1 2 4 8} \mathbf{7 0} 09$ | 1 |
| anthracite, matt | $\mathbf{1 2 4 8} \mathbf{7 0} 06$ | 1 |
| aluminium, matt | $\mathbf{1 2 4 8 7 0 2 4}$ | 1 |
| stainless steel, | $\mathbf{1 2 4 8 7 0 0 4}$ | 1 |
| lacquered |  |  |

For LED orientation light order no. 2951
For LED signal light order no. 2952

■ with printed label sheets „Please wait/Please enter" and „Do not disturb/make up room"

- with milky foil, for individual labelling


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Info pilot lamp cover with 5 label sheets

| white, glossy | $\mathbf{1 3 4 5} \mathbf{7 0 0 2}$ | 1 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 3 4 5} \mathbf{7 0 0 9}$ | 1 |
| anthracite, matt | $\mathbf{1 3 4 5} \mathbf{7 0 0 6}$ | 1 |
| aluminium, matt | $\mathbf{1 3 4 5 \mathbf { 7 0 } \mathbf { 2 4 }}$ | 1 |
| stainless steel, | $\mathbf{1 3 4 5} \mathbf{7 0 \mathbf { 0 4 }}$ | 1 |

13457004
lacquered

Current input 25 mA;
LED output 800 mW
Labels supplied: „Nicht eintreten", „Besetzt",
„Bitte eintreten", „Bitte Ruhe", „Bitte warten".
Coloured cover plate see module inserts order
no. 1289 ..
For insert info pilot lamp order no. 2949

- with 4 light intensity LED
- very long LED lifetime
- with clear cover plate

Order no.
Packing
unit

## TIMERS



Centre plate with setting knob for mechanical timer

| white, glossy, | 16347102 | 1 |
| :--- | :--- | :--- |
| max. 15 min |  |  |

polar white, glossy, 16347109 max. 15 min
anthracite, matt, $16347106 \quad 1$
max. 15 min
aluminium, matt, 16347124
max. 15 min
stainless steel, 16347104
max. 15 min
white, glossy,
16357102
1
max. 120 min
polar white, glossy max. 120 min anthracite, matt, 16357106 1

16357124

max. 120 min
aluminium, matt,
16357104
1
max. 120 min
stainless steel, 16357104
max. 120 min

Mechanical automatic timer 15 min order no. 2040
Mechanical automatic timer 120 min order no. 2041

■ with time scale imprint


I on page T7

## Easy timer with display

| white, glossy | $\mathbf{1 7 3 5} \mathbf{7 0} \mathbf{0 2}$ | 1 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 7 3 5} \mathbf{7 0} \mathbf{0 9}$ | 1 |
| anthracite, matt | $\mathbf{1 7 3 5} \mathbf{7 0} \mathbf{0 6}$ | 1 |
| aluminium, matt | $\mathbf{1 7 3 5} \mathbf{7 0} \mathbf{2 4}$ | 1 |
| stainless steel, | $\mathbf{1 7 3 5} \mathbf{7 0} \mathbf{0 4}$ | 1 |
| lacquered |  |  | lacquered

Per programme block 2 switching times for „on/off";
Power reserve approx. 4 hrs., maintenance-free
For manual and timer programmed switching of electrical loads.

For insert for timer order no. 2948

- simple programming of switching times
- with quick programming mode
$\square$ for approx. 4 h after removing insert programmable
- 2 programme blocks Mon. - Fri. and Sat. - Sun.
- with automatic summer-/winter time switching (can be switched off)
■ large-area display with symbols
- display of next switching time
- with slide switch for manual/automatic

Order no.

## Timer with display

| white, glossy | $\mathbf{1 7 3 6 7 1 0 2}$ | 1 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 7 3 6 7 1 0 9}$ | 1 |
| anthracite, matt | $\mathbf{1 7 3 6 7 1 0 6}$ | 1 |
| aluminium, matt | $\mathbf{1 7 3 6 7 1 2 4}$ | 1 |
| stainless steel, | $\mathbf{1 7 3 6 7 1 0 4}$ | 1 | stainless steel, lacquered

Switching times 18 for on/off;
Random generator +/- 15 min.;
Astronomic time shift +/- 2 hrs.;
Power reserve approx. 24 hrs.;
Countdown function 0-23 hrs. 59 min .
For manual and timer programmed switching of electrical loads.

For insert for timer order no. 2948

■ with imprint in German

- with pre-set base programme
- 2 independent programme memories for everyday/ holidays
- with week and day programme

■ with slide switch from summer to winter time
■ astro programme for sunrise/sundown switching

- large-area display with symbols

■ with slide switch for manual/automatic


I on page T7

## Timer with display and sensor connection

| white, glossy | $\mathbf{1 7 3 8 7 1 0 2}$ | 1 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 7 3 8 7 1 0 9}$ | 1 |
| anthracite, matt | $\mathbf{1 7 3 8 7 1 0 6}$ | 1 |
| aluminium, matt | $\mathbf{1 7 3 8 7 1 2 4}$ | 1 |
| stainless steel, | $\mathbf{1 7 3 8} \mathbf{7 1 0 4}$ | 1 |

lacquered

Setting range twilight approx. 6-300 Lux;
Switching times 18 for on/off;
Random generator +/- 15 min.;
Astronomic time shift +/- 2 hrs.;
Power reserve approx. 24 hrs.;
Countdown function 0-23 hrs. 59 min .
For manual and timer programmed switching of electrical loads.

For RolloTec brightness sensors order no. 0169, 0184
For insert for timer order no. 2948

- with imprint in German
- with pre-set base programme

■ 2 independent programme memories for everyday/ holidays
■ with week and day programme
■ with slide switch from summer to winter time
■ astro programme for sunrise/sundown switching

- large-area display with symbols

■ with slide switch for manual/automatic

- for sensor connection to socket contact or terminal block
■ connected RolloTec brightness sensor can be used for twilight-controlled switching-on

Order no.
Packing
unit
ROTARY DIMMERS
Centre plate with setting knob for rotary dimmer

| white, glossy | $\mathbf{1 1 3 5} \mathbf{7 0 0 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 1 3 5} \mathbf{7 0 \mathbf { 0 9 }}$ | 10 |
| anthracite, matt | $\mathbf{1 1 3 5} \mathbf{7 0 \mathbf { 0 6 }}$ | 10 |
| aluminium, matt | $\mathbf{1 1 3 5} \mathbf{7 0 \mathbf { 2 4 }}$ | 10 |
| stainless steel | $\mathbf{1 1 3 5} \mathbf{7 0} \mathbf{0 4}$ | 10 |
| Axial dimension diameter $\mathbf{4 ~ m m}$ |  |  |

Axial dimension diameter 4 mm

IP44 protection when using sealing set order no. 10107200
For rotary dimmer order no. 2819 .., 2830 10, 2860 10, 2875, 2885
For universal rotary dimmer order no. 286110
For universal rotary dimmer extension unit order no. 286210
For rotary dimmer LV order no. 2866 10, 2873
For Tronic rotary dimmer order no. 2867 10, 2874
For rotary potentiometer 1-10 V order no. 289110
For push-button rotary potentiometer 1-10 V order no. 289610
For rotary potentiometer DALI order no. 2897
For rotary potentiometer DALI with integrated power supply unit order no. 2898

## SPEED CONTROLLERS

Centre plate with setting knob
for speed controller
white, glossy 11357202
polar white, glossy 11357209
anthracite, matt 11357206
aluminium, matt $113572 \mathbf{2 4} 10$
stainless steel 11357204
10
Axial dimension diameter 4 mm
IP44 protection when using sealing set order no. 10107200
For speed controller order no. 296801

■ with imprinted symbol curve

## UNIVERSAL SERIES TOUCH DIMMERS



I on page T10

Button for universal series touch dimmer
white, glossy
176570021
polar white, glossy 176570091
anthracite matt 17657006
aluminium, matt 17657024
stainless steel
17657004

For universal series touch dimmer order no. 2901

- for 2 independent lighting groups

■ with 2-push-buttons operation concept per series

Order no.
Packing
unit
BLC BERKER LIGHT CONTROL
Buttons


I on page T12

## BLC button

white, glossy
polar white, glossy
anthracite, matt
aluminium, matt
stainless steel

For BLC universal touch dimmer order no. 2902
For BLC touch control unit 1-10 V order no. 2903
For BLC touch dimmer LV order no. 2904
For BLC triac switch insert LV order no. 2905
For BLC relay switch insert order no. 2906
For BLC relay switch insert with potential-free contact order no. 290610
For BLC extension unit order no 2907
For BLC relay switch insert HVAC order no. 2912
For BLC Tronic switch insert order no. 2916
For BLC stair light time switching impulse insert order no. 293410

- with 2-push-buttons operation concept
$\square$ switch-on brightness for BLC dimmer insert mainsfailure protection storable
- with BLC relay switch insert HVAC used as timer as well


## Radio buttons



## BLC radio button

white, glossy
polar white, glossy
anthracite, matt
aluminium, matt stainless steel

| 17617002 | 1 |
| :--- | :--- |
| 17617009 | 1 |
| 17617006 | 1 |
| 17617024 | 1 |
| 17617004 | 1 |

Radio signal reception frequency $433,42 \mathrm{MHz}$; Learnable radio transmitters 30

Extension unit operation with BLC extension unit and push-button (NO) possible as of release R2.1.

For actuation via button and radio transmitter.
For BLC universal touch dimmer order no. 2902
For BLC touch control unit 1-10 V order no. 2903
For BLC touch dimmer LV order no. 2904
For BLC triac switch insert LV order no. 2905 For BLC relay switch insert order no. 2906 For BLC relay switch insert with potential-free contact order no. 290610
For BLC relay switch insert HVAC order no. 2912
For BLC Tronic switch insert order no. 2916

- with 2-push-buttons operation concept

■ with 5 light scenes for „on/off", dimming value

- retrieving light scenes only by using radio transmitter
- radio signal of taught-in radio controller activates for 1 minute (subsequently triggered)
$\square$ switch-on brightness for BLC dimmer insert mainsfailure protection storable
■ reset function (to factory setting)

Order no.

## BLC Controllers



BLC controller 1.1m
white, glossy 178370021
polar white, glossy $17837009 \quad 1$
anthracite, matt 17837006

| aluminium, matt | 17837024 | 1 |
| :--- | :--- | :--- |
|  | 17837004 |  |

1 on page T15
stainless steel, 17837004 lacquered

Nominal mounting height $1,1 \mathrm{~m}$
Range frontal approx. 10 m ;
Range lateral each approx. 6 m;
Detection field semi-oval shaped approx. $10 \times 12 \mathrm{~m}$;
Detection angle $180^{\circ}$;
Detection levels 2;
Switching segments 72;
Response sensitivity programmable
approx. 20-100 \% ;
Response brightness adjustable approx. 0-80/ unlimited Lux;
Delay time approx. 2 min.;
Operating temperature $-20-+45^{\circ} \mathrm{C}$;
Dimensions assembling height $23,5 \mathrm{~mm}$
Direct sunlight penetration the upward-pointing detection plane results in failure of the movement controller. Only suitable for interiors!

Switches on for the duration of the controller delay time in case minimum response brightness level is infringed and if movement of people is detected. In conjunction with a BLC relay switch unit HVAC, the HVAC-channel is also switched on for the duration of its delay time independent of response brightness

For BLC universal touch dimmer order no. 2902
For BLC touch control unit 1-10 V order no. 2903
For BLC touch dimmer LV order no. 2904
For BLC triac switch insert LV order no. 2905
For BLC relay switch insert order no. 2906
For BLC relay switch insert with potential-free contact order no. 290610
For BLC controller extension unit order no. 2908
For BLC relay switch insert HVAC order no. 2912
For BLC Tronic switch insert order no. 2916
For BLC stair light time switching impulse insert order no. 293410

- activation by push-button opener in the cable
- with cover to limit detection angle to $90^{\circ}$

Order no.


I on page $\mathbf{T} 20$ lacquered

| BLC controller 2.2m |  |  |
| :--- | :--- | :--- |
| white, glossy | $\boldsymbol{* 1 7 8 8} \mathbf{7 0 0 2}$ | 1 |
| polar white, glossy | $\boldsymbol{* 1 7 8 8} \mathbf{7 0} \mathbf{0 9}$ | 1 |
| anthracite, matt | $\boldsymbol{* 1 7 8 8} \mathbf{7 0} \mathbf{0 6}$ | 1 |
| aluminium, matt | $\boldsymbol{* 1 7 8 8 7 0 2 4}$ | 1 |
| stainless steel, | $\boldsymbol{* 1 7 8 8 7 0 0 4}$ | 1 |

Nominal mounting height $2,2(1,1) \mathrm{m}$;
Range frontal approx. 12 (6) m;
Range lateral each approx. 6 (3) m;
Detection field semi-oval shaped approx. $12 \times 12 \mathrm{~m}$;
Detection angle $180^{\circ}$;
Detection levels 6;
Switching segments 268;
Response brightness (learnable) approx. 10 lx ;
Delay time approx. 2 min.;
Operating temperature $-15-+45^{\circ} \mathrm{C}$
As delivered and reset condition: response brightness 10 lx .

Switches on for the duration of the motion detector delay time in case minimum response brightness level is infringed and if movement of people is detected.
In conjunction with a BLC relay switch unit HVAC, the HVAC-channel is also switched on for the duration of its delay time independent of response brightness.

For BLC universal touch dimmer order no. 2902 For BLC touch control unit 1-10 V order no. 2903
For BLC touch dimmer LV order no. 2904
For BLC triac switch insert LV order no. 2905
For BLC relay switch insert order no. 2906
For BLC relay switch insert with potential-free contact order no. 290610
For BLC controller extension unit order no. 2908
For BLC relay switch insert HVAC order no. 2912
For BLC Tronic switch insert order no. 2916
For BLC stair light time switching impulse insert
order no. 293410

- with crawl-under protection
- $\mu$-processor controlled operation (detection signal evaluation and interference signal suppression)
- glare-proof e.g. against a torch
- no switch-on in case of inadvertent brief shadowing
- with adaptive sensitivity adjustment
- switch-on brightness for BLC dimmer insert with hand transmitter and BLC extension unit storable
- dimming insert switch-off advance warning (30 s dimming process)
- with teach function for response brightness
- activation by push-button opener in the cable


I on page T15

Order no.

## BLC controller 180

white, glossy \#17867002 1 polar white, glossy \#17867009 1
anthracite, matt \#17867006
\# 17867006
aluminium, matt \#17867024 1
stainless steel, \#17867004 1 lacquered

Nominal mounting height 2,2 m;
Range frontal approx. 12 m ;
Range lateral each approx. 6 m ; At assembly height 1,1 m;
Range frontal approx. 6 m ;
Range lateral each approx. 3 m ;
Detection field semi-oval shaped approx. $12 \times 12 \mathrm{~m}$; Detection angle $180^{\circ}$;
Detection levels 3;
Switching segments 104;
Response sensitivity programmable approx. 20-100 \% ;
Response brightness adjustable approx. 0-80 / unlimited Lux;
Delay time approx. 2 min.;
Operating temperature $-20-+45^{\circ} \mathrm{C}$;
Dimensions assembling height $23,5 \mathrm{~mm}$
Switches on for the duration of the controller delay time in case minimum response brightness level is infringed and if movement of people is detected. In conjunction with a BLC relay switch unit HVAC, the HVAC-channel is also switched on for the duration of its delay time independent of response brightness.

For BLC universal touch dimmer order no. 2902
For BLC touch control unit 1-10 V order no. 2903
For BLC touch dimmer LV order no. 2904
For BLC triac switch insert LV order no. 2905
For BLC relay switch insert order no. 2906
For BLC relay switch insert with potential-free contact order no. 290610
For BLC controller extension unit order no. 2908
For BLC relay switch insert HVAC order no. 2912
For BLC Tronic switch insert order no. 2916
For BLC stair light time switching impulse insert order no. 293410

■ activation by push-button opener in the cable

- with cover to limit detection angle to $90^{\circ}$

Order no.
Packing
Order no.
unit


I on page T15

| BLC controller comfort 1,1 m |  |  |
| :---: | :---: | :---: |
| white, glossy | 17847002 | 1 |
| polar white, glossy | 17847009 | 1 |
| anthracite, matt | 17847006 | 1 |
| aluminium, matt | 17847024 | 1 |
| stainless steel, | 17847004 | 1 | lacquered

Nominal mounting height $1,1 \mathrm{~m}$;
Range frontal approx. 10 m ;
Range lateral each approx. 6 m ;
Detection field semi-oval shaped approx. $10 \times 12 \mathrm{~m}$;
Detection angle $180^{\circ}$;
Detection levels 2;
Switching segments 72;
Response sensitivity programmable
approx. $20-100 \%$;
Response brightness adjustable approx. 0-80/ unlimited Lux;
Delay time adjustable approx. 10 sec.- 30 min . ;
Time to dim down 30 sec .;
Step operation 0,5 sec.;
Immunity time approx. 3 sec.;
Operating temperature $-20-+45^{\circ} \mathrm{C}$;
Dimensions assembling height $23,5 \mathrm{~mm}$
Direct sunlight penetration the upward-pointing detection plane results in failure of the movement controller. Only suitable for interiors!

Switches on for the duration of the delay time set on the controller in case minimum response brightness level is infringed and if movement of people is detected.
In conjunction with a BLC relay switch unit HVAC, the HVAC-channel is also switched on for the duration of its delay time independent of response brightness.

For BLC universal touch dimmer order no. 2902 For BLC touch control unit 1-10 V order no. 2903 For BLC touch dimmer LV order no. 2904 For BLC triac switch insert LV order no. 2905 For BLC relay switch insert order no. 2906 For BLC relay switch insert with potential-free contact order no. 290610
For BLC controller extension unit order no. 2908
For BLC relay switch insert HVAC order no. 2912
For BLC Tronic switch insert order no. 2916 For BLC stair light time switching impulse insert order no. 293410
with slide switch for off/automatic/on
■ $\mu$-processor controlled operation (detection signal evaluation and interference signal suppression)
$\square$ glare-proof e.g. against a torch
■ no switch-on in case of inadvertent brief shadowing
$\square$ with adaptive sensitivity adjustment
■ with teach function for response brightness
$\square$ step operation with immunity time (e.g. for bell)
■ switch-on brightness in conjunction with BLC dimmer inserts can only be saved via BLC extension unit

- with dimming function (soft-off) when using BLC dimmer inserts
- activation by push-button opener in the cable
$\square$ with cover to limit detection angle to $90^{\circ}$


Adjustable with hand transmitter for BLC IR controller order no. 2770
For BLC universal touch dimmer order no. 2902
For BLC touch control unit 1-10 V order no. 2903
For BLC touch dimmer LV order no. 2904
For BLC triac switch insert LV order no. 2905
For BLC relay switch insert order no. 2906
For BLC relay switch insert with potential-free contact order no. 290610
For BLC controller extension unit order no. 2908
For BLC relay switch insert HVAC order no. 2912
For BLC Tronic switch insert order no. 2916
For BLC stair light time switching impulse insert order no. 293410

- with 2 buttons for permanent ON (LED green), permanent OFF (LED red) and automatic
$\square$ with detection and IR receiver LED red, and IR confirmation LED green
$\square$ with crawl-under protection
$\square \mu$-processor controlled mode of operation
■ glare-proof e.g. against a torch
- no switch-on in case of inadvertent brief shadowing

■ with adaptive sensitivity adjustment
■ switch insert switch-off advance warning (3x alternately 0.2 s OFF/10 s ON) via remote control
■ dimming insert switch-off advance warning (30 s dimming process)
■ switch-on brightness for BLC dimmer insert with hand transmitter and BLC extension unit storable
$\square$ angle of detection limiter by means of sensor cutoff via remote control
■ Short-time mode with immunity time (e.g. for bell) via remote control

- Hotel mode via remote control: without motion is dimmed to 20\%
■ test mode via remote control: response sensitivity $100 \%$, time delay 1 s and day mode
■ Presence simulation via remote control: Retrieval of the switching operations from the last 7 days
■ activation by push-button opener in the cable
■ with teach function for response brightness

Order no.


1 on page T15

| BLC controller 180 comfort with slide switch for off/automatic/on |  |  |
| :---: | :---: | :---: |
| white, glossy | \#1787 7002 | 1 |
| polar white, glossy | \#1787 7009 | 1 |
| anthracite, matt | \#1787 7006 | 1 |
| aluminium, matt | \#1787 7024 | 1 |
| stainless steel, | \#1787 7004 | 1 |

Nominal mounting height 2,2 m;
Range frontal approx. 12 m ;
Range lateral each approx. 6 m ;
At assembly height 1,1 m;
Range frontal approx. 6 m ;
Range lateral each approx. 3 m ;
Detection field semi-oval shaped approx. $12 \times 12 \mathrm{~m}$;
Detection angle $180^{\circ}$;
Detection levels 3;
Switching segments 104;
Response sensitivity programmable
approx. 20-100 \% ;
Response brightness adjustable approx. 0-80 /
unlimited Lux;
Delay time adjustable approx. $10 \mathrm{sec} .-30 \mathrm{~min}$. ;
Time to dim down 30 sec.;
Step operation 0,5 sec.;
Immunity time approx. 3 sec.;
Operating temperature $-20-+45^{\circ} \mathrm{C}$;
Dimensions assembling height $23,5 \mathrm{~mm}$
Switches on for the duration of the delay time set on the controller in case minimum response brightness level is infringed and if movement of people is detected.
In conjunction with a BLC relay switch unit HVAC, the HVAC-channel is also switched on for the duration of its delay time independent of response brightness.

For BLC universal touch dimmer order no. 2902
For BLC touch control unit 1-10 V order no. 2903
For BLC touch dimmer LV order no. 2904
For BLC triac switch insert LV order no. 2905
For BLC relay switch insert order no. 2906
For BLC relay switch insert with potential-free contact order no. 290610
For BLC controller extension unit order no. 2908
For BLC relay switch insert HVAC order no. 2912
For BLC Tronic switch insert order no. 2916
For BLC stair light time switching impulse insert order no. 293410
$■ \mu$-processor controlled operation (detection signal evaluation and interference signal suppression)
■ glare-proof e.g. against a torch
$■$ no switch-on in case of inadvertent brief shadowing
■ with adaptive sensitivity adjustment
$\square$ with teach function for response brightness
$\square$ step operation with immunity time (e.g. for bell)
■ switch-on brightness in conjunction with BLC dimmer inserts can only be saved via BLC extension unit
$\square$ with dimming function (soft-off) when using BLC dimmer inserts
■ activation by push-button opener in the cable
$\square$ with cover to limit detection angle to $90^{\circ}$


I on page T15

| BLC controller 1.1 m IP44 |  |
| :--- | ---: |
| white, glossy | 17837102 |
| polar white, glossy | 17837109 |
| anthracite, matt | 17837106 |
| aluminium, matt | 17837124 |

17837109

17837124
aluminium, matt $17837124 \quad 1$

Nominal mounting height $1,1 \mathrm{~m}$;
Range frontal approx. 10 m ;
Range lateral each approx. 6 m;
Detection field semi-oval shaped approx. $10 \times 12 \mathrm{~m}$;
Detection angle $180^{\circ}$;
Detection levels 2;
Switching segments 72;
Response sensitivity programmable
approx. 20-100 \% ;
Response brightness adjustable approx. 0-80/
unlimited Lux;
Delay time approx. 2 min.;
Operating temperature $-20-+45^{\circ} \mathrm{C}$;
Dimensions assembling height $23,5 \mathrm{~mm}$

Attention!
Sealing set attached.
Direct sunlight penetration the upward-pointing detection plane results in failure of the movement controller. Only suitable for interiors!

Switches on for the duration of the motion detector delay time in case minimum response brightness level is infringed and if movement of people is detected.
In conjunction with a BLC relay switch unit HVAC, the HVAC-channel is also switched on for the duration of its delay time independent of response brightness.

For BLC universal touch dimmer order no. 2902
For BLC touch control unit 1-10 V order no. 2903
For BLC touch dimmer LV order no. 2904
For BLC triac switch insert LV order no. 2905
For BLC relay switch insert order no. 2906
For BLC relay switch insert with potential-free
contact order no. 290610
For BLC controller extension unit order no. 2908 293410
For BLC relay switch insert HVAC order no. 2912
For BLC Tronic switch insert order no. 2916
$\square$ activation by push-button opener in the cable

- with cover to limit detection angle to $90^{\circ}$

Order no.
Order no.
unit


| BLC controller comfort $\mathbf{1 . 1} \mathbf{~ m ~ I P 4 4}$ |  |  |
| :--- | :---: | :--- |
| white, glossy | $\mathbf{1 7 8 4} \mathbf{7 1} \mathbf{0 2}$ | 1 |
| polar white, glossy | $\mathbf{1 7 8 4} \mathbf{7 1 0 9}$ | 1 |
| anthracite, matt | $\mathbf{1 7 8 4 7 1 0 6}$ | 1 |
| aluminium, matt | $\mathbf{1 7 8 4} \mathbf{7 1 2 4}$ | 1 |

I on page T15
Nominal mounting height 1,1 m;
Range frontal approx. 10 m ;
Range lateral each approx. 6 m ;
Time to dim down 30 sec.;
Immunity time approx. 3 sec.;
Operating temperature $-20-+45^{\circ} \mathrm{C}$;
Dimensions assembling height $23,5 \mathrm{~mm}$
Attention!
Sealing set attached.
Direct sunlight penetration the upward-pointing detection plane results in failure of the movement controller. Only suitable for interiors!

Switches on for the duration of the motion detector delay time in case minimum response brightness level is infringed and if movement of people is detected.
In conjunction with a BLC relay switch unit HVAC, the HVAC-channel is also switched on for the duration of its delay time independent of response brightness.

For BLC universal touch dimmer order no. 2902
For BLC touch control unit 1-10 V order no. 2903
For BLC touch dimmer LV order no. 2904
For BLC triac switch insert LV order no. 2905
For BLC relay switch insert order no. 2906
For BLC relay switch insert with potential-free contact order no. 290610
For BLC controller extension unit order no. 2908
For BLC relay switch insert HVAC order no. 2912
For BLC Tronic switch insert order no. 2916
For BLC stair light time switching impulse insert order no. 293410

- $\mu$-processor controlled operation (detection signal evaluation and interference signal suppression)
- glare-proof e.g. against a torch

■ no switch-on in case of inadvertent brief shadowing

- with adaptive sensitivity adjustment
- with teach function for response brightness
- step operation with immunity time (e.g. for bell)
- switch-on brightness in conjunction with BLC dimmer inserts can only be saved via BLC extension unit
- with dimming function (soft-off) when using BLC dimmer inserts
$■$ activation by push-button opener in the cable
- with cover to limit detection angle to $90^{\circ}$

Order no.


I on page T15

| BLC controller comfort 2.2 m IP44 |  |
| :--- | :---: |
| white, glossy | 17877102 |
| anthracite, matt | 17877106 |
| polar white, glossy | 17877109 |
| aluminium, matt | 17877124 |

THERMOSTATS


1 on page T34 auminium, matt stainless steel, lacquered
$5-30^{\circ} \mathrm{C}, 50 / 60 \mathrm{~Hz}$
Rated voltage 250 V ;
Switching current 10 A ;
Inductive load at $\cos \varphi$ 0,6 max. 4 A;
Switching temperature difference approx. $0,5^{\circ} \mathrm{C}$; Night lowering approx. $4{ }^{\circ} \mathrm{C}$

Neutral conductor necessary!
If the pre-set temperature is reached the contact opens.

Replacement centre plate order no. 167171 ..
Suitable valve drive order no. 75900076

- with imprint

■ setting knob with temperature range limitation
■ with on/off switch and indicator LED for "on"

- with thermal return
- with separate connection for night lowering

■ e.g. for valve drives closed in de-energized state
■ without spreader claws

- with plug-in terminals


I on page T34

Room thermostat 24 V with NC contact, centre plate, rocker switch and LED
white, glossy
polar white, glossy
anthracite, matt
aluminium, matt
20317102
20317109
20317106
20317124
20317104
stainless steel,
lacquered
$5-30^{\circ} \mathrm{C}, 50 / 60 \mathrm{~Hz}$
Rated voltage $24 \mathrm{~V} \sim$;
Switching current 10 A~;
Rated voltage $24 \mathrm{~V}=$;
Switching current $4 \mathrm{~A}=$;
Switching temperature difference approx. $0,5^{\circ} \mathrm{C}$; Night lowering approx. $4{ }^{\circ} \mathrm{C}$

If the pre-set temperature is reached the contact opens.

Replacement centre plate order no. 167171 .. Suitable valve drive order no. 75900077

- with imprint

■ setting knob with temperature range limitation

- with on/off switch and indicator LED for „on"

■ with thermal return
■ with separate connection for night lowering

- e.g. for valve drives closed in de-energized state
- without spreader claws
- with plug-in terminals

Order no.
Order no.


| Centre plate with setting knob, rocker |  |  |
| :--- | :---: | :---: |
| and lens for room thermostat with NC contact |  |  |
| white, glossy | 16717102 | 1 |
| polar white, glossy | 16717109 | 1 |
| anthracite, matt | 16717106 | 1 |
| aluminium, matt | 16717124 | 1 |
| stainless steel, | 16717104 | 1 |
| lacquered |  |  |

Replacement demand for order no. 203071 .., 203171 ..

- with imprint
- setting knob with temperature range limitation


I on page T34
Room thermostat with change-over and centre plate

| white, glossy | 20267102 | 1 |
| :--- | :--- | :--- |
| polar white, glossy | 20267109 | 1 |
| anthracite, matt | 20267106 | 1 |
| aluminium, matt | $\mathbf{2 0 2 6 7 1 2 4}$ | 1 |
| stainless steel, | $\mathbf{2 0 2 6 7 1 0 4}$ | 1 | lacquered

$5-30^{\circ} \mathrm{C}, 50 / 60 \mathrm{~Hz}$
Rated voltage 250 V ;
Switching current „heating" 10 A ;
Switching current "heating" at $\cos \varphi 0.64 \mathrm{~A}$;
Switching current „cooling" 5 A;
Switching current "cooling" at $\cos \varphi 0.62$ A;
Switching temperature difference approx. $0,5^{\circ} \mathrm{C}$
Neutral conductor necessary!
If the pre-set temperature is reached the contact changes.

Replacement centre plate order no. 167071 ..
Suitable valve drive order no. 75900076

■ with imprint

- setting knob with temperature range limitation

■ for heating or cooling mode
$\square$ e.g. for valve drives closed in de-energized state

- with thermal return
- without spreader claws
- with plug-in terminals


Centre plate with setting knob for room thermostat with change-over contact

| white, glossy | $\mathbf{1 6 7 0} \mathbf{7 1 0 2}$ | 1 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 6 7 0 7 1 0 9}$ | 1 |
| anthracite, matt | $\mathbf{1 6 7 0 7 1 0 6}$ | 1 |
| aluminium, matt | $\mathbf{1 6 7 0 7 1 2 4}$ | 1 |
| stainless steel, | $\mathbf{1 6 7 0 7 1 0 4}$ | 1 |

stainless stee
167071041 lacquered

Replacement demand for order no. 202671 ..

■ with imprint
■ setting knob with temperature range limitation


Floor thermostat with NO contact, centre plate, rocker switch, 2 LEDs and floor temperature sensor

| white, glossy | 20347102 | 1 |
| :--- | :--- | :--- |
| polar white, glossy | 20347109 | 1 |
| anthracite, matt | $\mathbf{2 0 3 4 7 1 0 6}$ | 1 |
| aluminium, matt | $\mathbf{2 0 3 4 7 1 2 4}$ | 1 |
| stainless steel, | $\mathbf{2 0 3 4 7 1 0 4}$ | 1 | lacquered

$10-50{ }^{\circ} \mathrm{C}, 50 / 60 \mathrm{~Hz}$
Rated voltage $250 \mathrm{~V} \sim$;
Switching current 10 A ;
Switching temperature difference approx. $1^{\circ} \mathrm{C}$;
Night lowering approx. $5{ }^{\circ} \mathrm{C}$;
Sensor cable length 4 m
Neutral conductor necessary!
If the temperature falls under the pre-set value the contact closes.
Replacement floor temperature sensor / remote sensor order no. 0161
Replacement centre plate order no. 167271 ..
Suitable valve drive order no. 75900076

- with imprint
$■$ setting knob with temperature range limitation
■ with on/off switch and 2 LEDs
$\square$ with LED for heating and LED for night lowering
- with separate connection for night lowering
$\square$ e.g. for valve drives closed in de-energized state
- without spreader claws
- with plug-in terminals


Centre plate with setting knob, rocker and lenses for floor temperature thermostat

| white, glossy | 16727102 |
| :--- | :--- |
| polar white, glossy | 16727109 |
| anthracite, matt | 16727106 |
| aluminium, matt | 16727124 |
| stainless steel, | 16727104 |
| lacquered |  |
|  |  |
| Replacement demand for order no. 203471 .. |  |
|  |  |
| $\square$ with imprint |  |
| $\square$ setting knob with temperature range limitation |  |

## Sensor insert

| Central plate for sensor insert |  |  |
| :---: | :---: | :---: |
| white, glossy | 75940402 | 1 |
| polar white, glossy | 75940409 | 1 |
| anthracite, matt | 75940485 | 1 |
| aluminium, matt | 75940483 | 1 |
| stainless steel, lacquered | 75940403 | 1 |
| polar white, matt/velvety | 75940489 | 1 |
| light bronze, lacquered | 75940404 | 1 |

## Attention!

Use only with intermediate ring for central plate from the corresponding range.
Labelling field not usable.
Sensor insert order no. 75941001

- with slots for air circulation
- for e.g. temperature sensor PT100

Order no.
Order no.

## ROLLOTEC

Comfort buttons

on page T37

## RolloTec button comfort

| white, glossy | $\mathbf{1 7 7 0} \mathbf{7 0 \mathbf { 0 2 }}$ | 1 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 7 7 0} \mathbf{7 0} \mathbf{0 9}$ | 1 |
| anthracite, matt | $\mathbf{1 7 7 0} \mathbf{7 0} \mathbf{0 6}$ | 1 |
| aluminium, matt | $\mathbf{1 7 7 0} \mathbf{7 0} \mathbf{2 4}$ | 1 |
| stainless steel | $\mathbf{1 7 7 0} \mathbf{7 0 \mathbf { 0 4 }}$ | 1 |

Learnable running time $0,5 \mathrm{sec}$.- 2 min .;
Lamella adjustment with signal $<1 \mathrm{sec}$.
Locked for 2 min . upon actuation 1 - 4 Sec .

For RolloTec standard insert without neutral
conductor connection order no. 2911
For RolloTec standard insert order no. 2925
For Rollotec comfort insert order no. 2975
For RolloTec comfort insert for direct current drives order no. 297501
$\square$ with lock-out protection e.g. for shutter control terrace door

- Activation of the anti-lockout device in the upper end position by touching in the UP direction for
■ with indicator LED for lock-out protection


I on page T37

## RolloTec button comfort with sensor connection

white, glossy 17717002
polar white, glossy $17717009 \quad 1$
anthracite, matt
17717006

17717024
17717004

## I on page T37

RolloTec radio button

| white, glossy | $\mathbf{1 7 5 8} \mathbf{7 0} \mathbf{0 2}$ | 1 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 7 5 8} \mathbf{7 0} \mathbf{0 9}$ | 1 |
| anthracite, matt | $\mathbf{1 7 5 8} \mathbf{7 0} \mathbf{0 6}$ | 1 |
| aluminium, matt | $\mathbf{1 7 5 8} \mathbf{7 0} \mathbf{2 4}$ | 1 |
| stainless steel | $\mathbf{1 7 5 8} \mathbf{7 0} \mathbf{0 4}$ | 1 |

Radio signal reception frequency $433,42 \mathrm{MHz}$;
Learnable radio transmitters 30 ;
Lamella adjustment with signal < 1 sec.;
Self-sustaining for 2 min . with signal $>1 \mathrm{sec}$.
For actuation via button and radio transmitter.
For RolloTec standard insert without neutral conductor connection order no. 2911
For RolloTec standard insert order no. 2925
For Rollotec comfort insert order no. 2975
For RolloTec comfort insert for direct current drives order no. 297501

- with 5 light scenes for „open/close"
- retrieving light scenes only by using radio transmitter

RolloTec radio button with sensor connection

| white, glossy | $\mathbf{1 7 5 9} \mathbf{7 0 \mathbf { 0 2 }}$ | 1 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 7 5 9} \mathbf{7 0} \mathbf{0 9}$ | 1 |
| anthracite, matt | $\mathbf{1 7 5 9} \mathbf{7 0 \mathbf { 0 6 }}$ | 1 |
| aluminium, matt | $\mathbf{1 7 5 9} \mathbf{7 0} \mathbf{2 4}$ | 1 |
| stainless steel | $\mathbf{1 7 5 9} \mathbf{7 0 \mathbf { 0 4 }}$ | 1 |

Radio signal reception frequency $433,42 \mathrm{MHz}$;
Learnable radio transmitters 30 ;
Brightness value sun approx. 5-80 kLux;
Lamella adjustment with signal $<1$ sec.;
Self-sustaining for 2 min . with signal > 1 sec .
For actuation via button and radio transmitter.
For RolloTec brightness sensors order no. 0169, 0184
For RolloTec glass breakage sensor order no. 0170
For RolloTec adapter for sensors order no. 0171
For RolloTec standard insert without neutral
conductor connection order no. 2911
For RolloTec standard insert order no. 2925
For Rollotec comfort insert order no. 2975
For RolloTec comfort insert for direct current drives order no. 297501
For magnetic contact order no. 9251 .

- with 5 light scenes for „open/close"
$■$ retrieving light scenes only by using radio transmitter
- brightness value for sunblind individually adjustable
- no twilight sensor function
- only for sensor connection to terminal block

Order no.
Order no.
Packing
unit
Memory buttons


I on page T37
RolloTec memory button

| white, glossy | $\mathbf{1 7 5 6} \mathbf{7 0 0 2}$ | 1 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 7 5 6 7 0 0 9}$ | 1 |
| anthracite, matt | $\mathbf{1 7 5 6 7 0 0 6}$ | 1 |
| aluminium, matt | $\mathbf{1 7 5 6 7 0 2 4}$ | 1 |
| stainless steel | $\mathbf{1 7 5 6 7 0 0 4}$ | 1 |

Lamella adjustment with signal < 1 sec.;
Self-sustaining for 2 min . with signal > 1 sec .;
Storage of „up/down" time with signal $>3,5$ sec.
Stored „up" and/or „down" time is run daily in automatic operation.

For manual and timer programmed running of awnings, shutters and blinds.

For RolloTec standard insert without neutral conductor connection order no. 2911 For RolloTec standard insert order no. 2925 For Rollotec comfort insert order no. 2975 For RolloTec comfort insert for direct current drives order no. 297501


## RolloTec memory button with sensor

 connectionwhite, glossy polar white, glossy anthracite, matt aluminium, matt stainless steel
Brightness value sun approx. 20 kLux;
Lamella adjustment with signal < 1 sec.;
Self-sustaining for 2 min . with signal > 1 sec.;
Storage of „up/down" time with signal > 3,5 sec.
Stored „up" and/or „down" time is run daily in automatic operation.

For manual and timer programmed running of awnings, shutters and blinds.

For RolloTec brightness sensors order no. 0169, 0184 For RolloTec glass breakage sensor order no. 0170
For RolloTec adapter for sensors order no. 0171
For RolloTec standard insert without neutral
conductor connection order no. 2911
For RolloTec standard insert order no. 2925
For Rollotec comfort insert order no. 2975
For RolloTec comfort insert for direct current drives order no. 297501
For magnetic contact order no. 9251 ..

- no twilight sensor function
- only for sensor connection to terminal block


## Timer switches



Il on page T37

RolloTec easy timer with display white, glossy 17627102 polar white, glossy 17627109 anthracite, matt

17627106
17627124 stainless steel, $\quad 17627104$ lacquered
Operation times 2 up/down;
Power reserve approx. 6 hrs., maintenance-free;
Lamella adjustment with signal < 1 sec.;
Self-sustaining for 2 min . with signal $>1 \mathrm{sec}$.
No extension units and sensor signals or central commands will be processed.

For manual and timer programmed running of awnings, shutters and blinds.

For RolloTec standard insert without neutral conductor connection order no. 2911 For RolloTec standard insert order no. 2925
For Rollotec comfort insert order no. 2975
For RolloTec comfort insert for direct current drives order no. 297501

- with imprint in German
- with pre-set base programme
- simple programming of operation times
- with quick programming mode
- programming possible for up to 6 h after removing insert
- 2 programme blocks Mon. - Fri. and Sat. - Sun.
- large-area display
- with slide switch for manual/automatic

Order no.
Packing
Order no.
Packing


| RolloTec timer comfort with display and sensor connection |  |  |
| :---: | :---: | :---: |
| white, glossy | 17757002 | 1 |
| polar white, glossy | 17757009 | 1 |
| anthracite, matt | 17757006 |  |
| aluminium, matt | 17757024 | 1 |
| stainless steel, | 17757004 | 1 |

Setting range sun approx. 1-76 kLux;
Setting range twilight approx. 6-300 Lux;
Operation times 18 up/down;
Random generator +/- 15 min.;
Power reserve approx. 3 hrs ., maintenance-free;
Astronomic time shift +/- 2 hrs.;
Learnable running time 1 sec.- 6 min .;
Lamella adjusting time 0-5 sec.;
Lamella adjustment with signal $<1$ sec.;
Lock at touching > 1 sec.
For manual and timer programmed running of awnings, shutters and blinds.

For RolloTec brightness sensors order no. 0169, 0184
For RolloTec glass breakage sensor order no. 0170
For RolloTec adapter for sensors order no. 0171
For RolloTec standard insert without neutral conductor connection order no. 2911
For RolloTec standard insert order no. 2925
For Rollotec comfort insert order no. 2975
For RolloTec comfort insert for direct current drives order no. 297501
For magnetic contact order no. 9251 ..

■ with German display text

- with totally 3 independent programme memories
- 2 programme memories pre-set

■ programming according to week and days possible

- programme memory network failure proved
- with automatic summer-/winter time switching (can be switched off)
■ astro programme for sunrise/sundown running
- large-area display with symbols

■ indication of the next operation schedule under consideration of astro and coincidence function
■ with slide switch for manual/automatic
■ lock out protection because evaluation of the centre or extension unit commands can be switched off

- lamella position programmable at down operation times
- with surface-mounted RolloTec brightness sensor additionally settable with shutter and lamella pos.
■ connected RolloTec brightness sensor can be used for twilight-controlled lowering
■ con.surface-mounted RolloTec brightness sensor suitable for twilight-controlled raising and lowering
- for the sensor connection on the clamping block in the insert

Order no.
Packing
unit



CE


Order no.
Packing
unit


I on page 165
USB/3.5 mm audio socket outlet white, glossy *3315397002 polar white, glossy *3315397009 anthracite, matt *3315397006 aluminium, matt *3315397024
stainless steel
*33 15397004
10
10
10
10
10 lacquered

Frequency range audio $20 \mathrm{~Hz}-20 \mathrm{KHz}$; Transmission rate (USB) max. $480 \mathrm{MBit} / \mathrm{s}$

Especially suitable for connecting mobile devices, such as mobile phones or MP3 players (mini audio), digital cameras and computer peripherals (USB 2.0).

Installation recommendation:
Company name Kaiser: „Electronic-Dose" for compliance with the permissible bending radii, Art.-No. 1068-02 or 9062-74
Company name Fränkische: „Multimedia-Rohr" for laying pre-assembled connection cable, Art.-No. 294.10.092

Please notice the maximum cable length of the cableand devices manufacturer.

■ without spreader claws
■ USB double jack type A, USB 2.0 capable
■ double jack gold-plated 3.5 mm , stereo


High definition socket outlet
white, glossy *3315427002 10
polar white, glossy *3315427009 10
anthracite, matt
*

* 3315427006
* 3315427024

10
I on page T65
stainless steel

* 3315427004

10
lacquered
Video bandwidth max. 165 MHz ;
Resolution max. 1080p ( 1920 x 1080 px);
Frequency range (vertical) $50-85 \mathrm{~Hz}$;
Transmission rate max. $8,16 \mathrm{GBit} / \mathrm{s}$
Especially suitable for connecting digital high-end entertainment electronics devices for transmission of high-resolution audio and video signals, such as satellite receivers and DVD players, to LCD or plasma screens.

Installation recommendation:
Company name Kaiser: „Electronic-Dose" for compliance with the permissible bending radii, Art.-No. 1068-02 or 9062-74
Company name Fränkische: „Multimedia-Rohr" for laying pre-assembled connection cable, Art.-No. 294.10.092

Please notice the maximum cable length of the cableand devices manufacturer.

■ gold-plated contacts
$\square$ without spreader claws
■ with $\mathrm{HDMI}^{\text {TM }}$ double jack type A, supports $\mathrm{HDMI}^{\text {TM }}$ technology (V 1.3 with Deep Color)

Order no.


High definition socket with $90^{\circ}$ plug connection
white, glossy *33 $15437002 \quad 10$
polar white, glossy *3315437009 10
anthracite, matt *3315437006 10
aluminium, matt *33 $15437024 \quad 10$
stainless steel, *33 $15437004 \quad 10$ lacquered

Video bandwidth max. 165 MHz ; Resolution max. 1080p ( $1920 \times 1080 \mathrm{px}$ ); Frequency range (vertical) $50-85 \mathrm{~Hz}$; Transmission rate max. 8,16 GBit/s

Especially suitable for connecting digital high-end entertainment electronics devices for transmission of high-resolution audio and video signals, such as satellite receivers and DVD players, to LCD or plasma screens.

Installation recommendation:
Company name Kaiser: „Electronic-Dose" for compliance with the permissible bending radii, Art.-No. 1068-02 or 9062-74
Company name Fränkische: „Multimedia-Rohr" for laying pre-assembled connection cable, Art.-No. 294.10.092

Please notice the maximum cable length of the cableand devices manufacturer.

- gold-plated contacts
- jack on rear, angled $90^{\circ}$
- without spreader claws
- with $\mathrm{HDMI}^{\top \mathrm{M}}$ double jack type A, supports HDMI ${ }^{T M}$ technology (V 1.3 with Deep Color)


## Audio outlets



| Central plate for XLR round connectors D series |  |  |
| :---: | :---: | :---: |
| white, glossy | 141202 | 10 |
| polar white, glossy | 141209 | 10 |
| anthracite, matt | 14121606 | 10 |
| aluminium, matt | 14121404 | 10 |
| polar white, mattrvelvety | 14121909 | 10 |
| Cut-out diameter 23,6 mm; |  |  |
| Distance between scre | s (horizontal | / 24 | mm

For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.

## Attention!

Use only with intermediate ring for central plate from the corresponding range.

Circular plug-in connector:
Cannon;
Deltron;
Farnell;
Hirose;
Monacor;
Neutrik;
RS Components
■ with supporting plate

- speakon and jack connector
- without spreader claws

Order no.
Packing
Order no.
Packing
unit

| Centre plate for loudspeaker socket outlet and miniature connector insert |  |  |
| :---: | :---: | :---: |
| white, glossy, 1gang, 1 knock out opening | 11847002 | 10 |
| polar white, glossy, 1gang, 1 knock out opening | 11847009 | 10 |
| anthracite, matt, 1gang, 1 knock out opening | 11847006 | 10 |
| aluminium, matt, 1gang, 1 knock out opening | 11847024 | 10 |
| stainless steel, 1gang, | 11847004 | 10 |

For miniature connector insert order no. 4505 For stereo loudspeaker socket outlet order no. 450501
For loudspeaker socket outlet High End order no. 450502 For BNC/TNC connector insert order no. 4577, 4579

■ centre plate plug-in fixing
Centre plate for aerial socket 2- and 3-hole

| white, glossy | $\mathbf{1 2 0 1 7 0 0 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 2 0 1 7 0 0 9}$ | 10 |
| anthracite, matt | $\mathbf{1 2 0 1 7 0 \mathbf { 0 6 }}$ | 10 |
| aluminium, matt | $\mathbf{1 2 0 1 \mathbf { 7 0 } \mathbf { 2 4 }}$ | 10 |
| stainless steel | $\mathbf{1 2 0 1 \mathbf { 7 0 } \mathbf { 0 4 }}$ | 10 |

For aerial socket 2-hole single box order no. 4502 For aerial socket 2-hole throughpass socket order no. 4515
For aerial socket 3-hole single box order no. 4522 For aerial socket 3-hole throughpass socket order no. 4523, 4593

■ with knock out SAT input


| Central plate for aerial socket 4-hole |  |  |
| :---: | :---: | :---: |
| white, glossy | 148402 | 10 |
| polar white, glossy | 148409 | 10 |
| anthracite, matt | 14841606 | 10 |
| aluminium, matt | 14841404 | 10 |
| stainless steel, lacquered | 148404 | 10 |
| polar white, matt/velvety | 14841909 | 10 |
| brown | 148401 | 10 |
| light bronze, lacquered | 148411 | 10 |

For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.

Attention!
Use only with intermediate ring for central plate from the corresponding range.
For aerial socket 4-hole single box order no. 4594
Aerial sockets:
Ankaro;
Astro;
Axing;
Delta;
Schwaiger
■ with 2 additional SAT outputs (F-sockets)



Central plate for broadband modem box

| white, glossy | $\mathbf{1 4 3 9 0 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 4 3 9 0 9}$ | 10 |
| anthracite, matt | $\mathbf{1 4 3 9 1 6 0 6}$ | 10 |
| aluminium, matt | $\mathbf{1 4 3 9 \mathbf { 1 4 0 4 }}$ | 10 |
| polar white, matt/velvety | $\mathbf{1 4 3 9 \mathbf { 1 9 0 9 }}$ | 10 |

Attention!
Use only with intermediate ring for central plate from the corresponding range.

Broadband modem socket:
Wisi
■ with additional multimedia output

## INTERMEDIATE RINGS

| Adapter ring for centre plate $\mathbf{5 0 \times 5 0} \mathbf{~ m m}$ |  |  |
| :--- | :---: | :---: |
| white, glossy | $\mathbf{1 1 0 8 7 1 0 2}$ | 10 |
| polar white, glossy | $\mathbf{1 1 0 8 7 1 0 9}$ | 10 |
| anthracite, matt | $\mathbf{1 1 0 8 7 1 0 6}$ | 10 |
| aluminium, matt | $\mathbf{1 1 0 8 7 1 2 4}$ | 10 |
| stainless steel, | $\mathbf{1 1 0 8 7 1 0 4}$ | 10 | lacquered

Attention!
Not suitable for Berker central plates.
For centre plate as per DIN 49075

- for other centre plates with external size $50 \times 50 \mathrm{~mm}$

| Intermediate ring for central plate |  |  |  |
| :--- | :---: | :---: | :---: |
| white, glossy | $\mathbf{1 1 0 8} \mathbf{7 0} \mathbf{0 2}$ | 10 |  |
| polar white, glossy | $\mathbf{1 1 0 8} \mathbf{7 0} \mathbf{0 9}$ | 10 |  |
| anthracite, matt | $\mathbf{1 1 0 8} \mathbf{7 0} \mathbf{0 6}$ | 10 |  |
| aluminium, matt | $\mathbf{1 1 0 8} \mathbf{7 0} \mathbf{2 4}$ | 10 |  |
| stainless steel, | $\mathbf{1 1 0 8} \mathbf{7 0} \mathbf{0 4}$ | 10 |  |
| lacquered |  |  |  |

- labelling field latchable

Order no.
Packing unit

## Labelling fields

Labelling field height arranged for 6 mm P-touch strips.

## Intermediate rings



Intermediate ring with hinged cover and labelling field for central plate and centre plate $50 \times 50 \mathrm{~mm}$

| white, glossy | $\mathbf{1 1 5 4 7 1 0 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 1 5 4 7 1 0 9}$ | 10 |
| anthracite, matt | $\mathbf{1 1 5 4 7 1 0 6}$ | 10 |
| aluminium, matt | $\mathbf{1 1 5 4 7 1 2 4}$ | 10 |
| stainless steel | $\mathbf{1 1 5 4 7 1 0 4}$ | 10 |

Labelling field height arranged for 6 mm P-touch strips.

- with imprint

■ when opening hinged cover, it can be arrested in end position

## DATA COMMUNIGATIONS/TELECOMMUNIGATIONS

Centre plate for cable outlet and VDo connection box

| * | Centre plate for cable outlet and VDo connection box |  |  |
| :---: | :---: | :---: | :---: |
|  | white, glossy | 10057002 | 10 |
|  | polar white, glossy | 10057009 | 10 |
|  | anthracite, matt | 10057006 | 10 |
|  | aluminium, matt | 10057024 | 10 |
|  | stainless steel, | 10057004 | 10 |

stainless steel,
10057004

polar white, glossy 1905006910
stainess stee 0
white, gloss
anthracite, matt stainless

11547104

For cable outlet order no. 4468, 4470

VDo connector boxes:
Komos;
Rutenbeck;
Telena

- with an outlet below

Order no.
Packing
unit

|  | Centre plate for TAE socket outlet and loudspeaker connection box |  |  |
| :---: | :---: | :---: | :---: |
|  | white, glossy | 10357002 | 10 |
| $*$ | polar white, glossy | 10357009 | 10 |
|  | anthracite, matt | 10357006 | 10 |
|  | aluminium, matt | 10357024 | 10 |
|  | stainless steel | 10357004 | 10 |

For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.
For USB charging socket 230 V order no. 2600 ..
For loudspeaker connection box order no. 4572 .., 4573 ..
For USB data interface flush-mounted order no. 75040004

EAD socket outlets:
Drivex;
Fröhlich + Walter;
Intracom;
TAE and FCC overvoltage protection sockets: Dehn;
FCC socket outlets:
Dätwyler;
Rutenbeck


Central plate for TAE socket outlet 6/6FF and 6/6NF and loudspeaker connection box
white, glossy 14580210
polar white, glossy 14580910
brown, glossy 145801

Attention!
Use only with intermediate ring for central plate from the corresponding range.
For USB charging socket 230 V order no. 26000.
For loudspeaker connection box order no. 4572 .., 4573 ..
For USB data interface flush-mounted order no. 75040004

EAD socket outlets:
Drivex;
Fröhlich + Walter;
Intracom;
TAE and FCC overvoltage protection sockets:
Dehn;
FCC socket outlets:
Dätwyler;
Rutenbeck

- for USB data interface flush-mounted

| - | Centre plate for PTT socket outlet „Netherlands" |  |  |
| :---: | :---: | :---: | :---: |
|  |  |  |  |
|  | white, glossy | 6110267002 | 10 |
|  | polar white, glossy | 6110267009 | 10 |
|  | anthracite, matt | 6110267006 | 10 |
|  | aluminium, matt | 6110267024 | 10 |

Order no.
Packing
unit

| Centre plate for RTT socket outlet „Belgium" |  |  |
| :--- | ---: | ---: |
| white, glossy | $\mathbf{6 7 1 0 2 5} \mathbf{7 0} \mathbf{0 2}$ | 10 |
| polar white, glossy | $\mathbf{6 7 1 0 2 5} \mathbf{7 0} \mathbf{0 9}$ | 10 |
| anthracite, matt | $\mathbf{6 7 1 0 2 5} \mathbf{7 0 0 6}$ | 10 |
| aluminium, matt | $\mathbf{6 7 1 0 2 5} \mathbf{7 0} \mathbf{2 4}$ | 10 |
| stainless steel | $\mathbf{6 7 1 0 2 5} \mathbf{7 0 0 4}$ | 10 | stainless steel 10

## Centre plate for FCC socket outlet

| white, glossy | $\mathbf{1 4 0 7} \mathbf{7 0 \mathbf { 0 2 }}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 4 0 7} \mathbf{7 0} \mathbf{0 9}$ | 10 |
| anthracite, matt | $\mathbf{1 4 0 7 \mathbf { 7 0 } \mathbf { 0 6 }}$ | 10 |
| aluminium, matt | $\mathbf{1 4 0 7} \mathbf{7 0} \mathbf{2 4}$ | 10 |
| stainless steel | $\mathbf{1 4 0 7} \mathbf{7 0} \mathbf{0 4}$ | $\mathbf{1 0}$ |

For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.
For FCC socket outlet order no. 4538, 4568
For FCC socket outlet shielded order no. 4554, 4586
FCC socket outlets
AMP;
Brand-Rex;
BTR;
Crack-IT;
Rutenbeck;
Telegärtner
■ with $45^{\circ}$ oblique outlet
■ for 1 gang socket outlet cat.3, cat.5e and cat. 6

| Central plate for FCC socket outlet |  |  |
| :--- | :---: | :---: |
| white, glossy | $\mathbf{1 4 6 8} \mathbf{0 2}$ | 10 |
| polar white, glossy | $\mathbf{1 4 6 8 0 9}$ | 10 |
| brown, glossy | $\mathbf{1 4 6 8 ~ 0 1}$ | 10 |

For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.

Attention!
Use only with intermediate ring for central plate from the corresponding range.
For FCC socket outlet order no. 4538, 4568
For FCC socket outlet shielded order no. 4554, 4586

FCC socket outlets:
AMP;
Brand-Rex;
BTR;
Rutenbeck;
Telegärtner

- with $45^{\circ}$ oblique outlet

■ for 1 gang socket outlet cat.3, cat.5e and cat. 6

Order no.
Packing
unit


For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.

Attention!
解 nding range
For FCC socket outlet order no. 4539, 4562, 4592
For FCC socket outlet shielded order no. 4555, 4587

ISDN socket outlets (Rutenbeck):
Telekom;
FCC socket outlets:
AMP;
Brand-Rex,
CobiNet
Corning;
EFB Electronic;
Elmat/Süveg (STL-Gruppe);
Komos;
Rutenbeck:
Rutenbeck,
Telegärtner;
Telena
with $45^{\circ}$ oblique outlet
■ for 2 gang socket outlet cat.3, cat.5e and cat. 6
FCC socket outlets:
AMP;
d-Rex;

Comint

Datwyler,
Elmat/Süveg (STL-Gruppe);
Komos;
LeoniKerреп;

Telegärtner
with $45^{\circ}$ oblique outlet

Central plate FCC/E-DAT design/Telekom ISDN socket outlet

Order no.
Packing
unit

| Central plate for $\mathbf{3}$ MINI-COM modules |  |  |
| :--- | :--- | :--- |
| white, glossy | $\mathbf{1 4 2 7 0 2}$ | 10 |
| polar white, glossy | $\mathbf{1 4 2 7 0 9}$ | 10 |
| anthracite, matt | $\mathbf{1 4 2 7 1 6 0 6}$ | 10 |
| aluminium, matt | $\mathbf{1 4 2 7} \mathbf{1 4 0 4}$ | 10 |
| polar white, matt/velvety | $\mathbf{1 4 2 7 1 9 0 9}$ | 10 |

For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.

## Attention!

Use only with intermediate ring for central plate from the corresponding range.
For mini jack order no. 1980, 1984, 1985
For cinch module set order no. 1989
For blank module order no. 1990
For video cinch module order no. 1992
For S-Video module order no. 1993
For VGA module order no. 1994

## Modules:

Panduit

- with supporting plate

■ for Mini-Com jacks cat.3, cat.5e, cat.6, cat. 6 10Gig

- for Mini-Com fibre-optic modules
- for Mini-Com BNC connector modules
$\square$ for Mini-Com 3.5 mm stereo connection/coupling modules
- for mini-com speaker wire/banana plug modules
- for Mini-Com F-plug coupling modules
- for Mini-Com Cinch connection/coupling modules
- for Mini-Com S-Video connection/coupling modules
- for Mini-Com D-Subminiature connectors 15 pole
- for Mini-Com dummy modules 1 gang
- with $30^{\circ}$ oblique outlet
- without spreader claws


Central plate for 1 or 2 single modules Reichle\&De-Massari

| white, glossy | $\mathbf{1 4 7 2 ~ 0 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 4 7 2 0 9}$ | 10 |
| anthracite, matt | $\mathbf{1 4 7 2} \mathbf{1 6 0 6}$ | 10 |
| aluminium, matt | $\mathbf{1 4 7 2 \mathbf { 1 4 0 4 }}$ | 10 |
| polar white, matt/velvety | $\mathbf{1 4 7 2 \mathbf { 1 9 0 9 }}$ | 10 |

For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.

## Attention!

Use only with intermediate ring for central plate from the corresponding range.

## Modules:

Reichle\&De-Massari
$\square$ with supporting plate
$\square$ for connecting modules RJ45 cat.5e and cat. 6

- for fibre-optic modules
- with $30^{\circ}$ oblique outlet
$\square$ without spreader claws



## Central plate for double modules

 Reichle\&De-Massari| white, glossy | $\mathbf{1 4 6 1 0 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 4 6 1 0 9}$ | 10 |
| polar white, matt/velvety | $\mathbf{1 4 6 1 1 9 0 9}$ | 10 |

For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.

## Attention!

Use only with intermediate ring for central plate from the corresponding range.

```
Modules:
Diamond;
Reichle\&De-Massari
- with supporting plate
- for connecting modules RJ45 cat.5e and cat. 6
- for fibre-optic modules
- with \(30^{\circ}\) oblique outlet
- without spreader claws
```



Central plate for AMP modular jacks

| white, glossy | $\mathbf{1 4 6 3 0 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 4 6 3 0 9}$ | 10 |
| anthracite, matt | $\mathbf{1 4 6 3 1 6 0 6}$ | 10 |
| aluminium, matt | $\mathbf{1 4 6 3 1 4 0 4}$ | 10 |
| polar white, matt/velvety | $\mathbf{1 4 6 3 1 9 0 9}$ | 10 |

Indexing dimension ( $\mathrm{W} \times \mathrm{H}$ ) approx. $14,7 \times 20,7 \mathrm{~mm}$
Shielded versions touch each other.
For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.

## Attention!

Use only with intermediate ring for central plate from the corresponding range.

MT-RJ jack:
AMP;
Intracom;
Telena;
Modular jacks:
CobiNet;
EFB Electronic;
Schumann;
Standard 110 Connect jack:
AMP;
SL series toolless jack:
AMP;
SL series 110 Connect Jack:
AMP;
SL series toolless jack with dust protection:
AMP
■ with supporting plate
■ for AMP modular jacks series 110 Connect cat.3, cat.5, cat.5e and cat. 6

- for AMP fibre-optic couplings MT-RJ jacks

■ 2gang, with $30^{\circ}$ oblique outlet

- without spreader claws


Order no. Packing


| Central plate for AMP-ACO |  |  |
| :--- | :--- | :--- |
| white, glossy | $\mathbf{1 4 9 4 0 2}$ | 10 |
| polar white, glossy | $\mathbf{1 4 9 4 0 9}$ | 10 |
| anthracite, matt | $\mathbf{1 4 9 4 1 6 0 6}$ | 10 |
| aluminium, matt | $\mathbf{1 4 9 4 1 4 0 4}$ | 10 |
| polar white, matt/velvety | $\mathbf{1 4 9 4 1 9 0 9}$ | 10 |

For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.

Attention!
Use only with intermediate ring for central plate from the corresponding range.
Labelling field not usable.
ACO and CO Plus inserts:
AMP, order no. 0-1394580-1, 2-1394580-1,
0-0336627-1, 2-0336627-1, 0-0336627-3
■ cat.5, cat. 6 and cat. 7

- central plates plug-in fixing


Central plate for AMP-ACO with labelling field

| white, glossy | $\mathbf{1 4 9 5 0 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 4 9 5 0 9}$ | 10 |
| anthracite, matt | $\mathbf{1 4 9 5 \mathbf { 1 6 0 6 }}$ | 10 |
| aluminium, matt | $\mathbf{1 4 9 5 \mathbf { 1 4 0 4 }}$ | 10 |
| polar white, matt/velvety | $\mathbf{1 4 9 5 \mathbf { 1 9 0 9 }}$ | 10 |

For detailed information on relevant articles of the listed manufacturers please see Berker Online Catalogue.

Labelling field height arranged for 6 mm P-touch strips.

Attention!
Use only with intermediate ring for central plate from the corresponding range.

ACO and CO Plus inserts:
AMP, order no. 0-0336627-1, 2-0336627-1,
0-0336627-3
■ cat.5, cat. 6 and cat. 7

Order no.
Order no.


Central plate for fibre-optic couplings Duplex SC

| white, glossy | $\mathbf{1 4 8 0} \mathbf{0 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 4 8 0} \mathbf{0 9}$ | 10 |
| polar white, matt/velvety | $\mathbf{1 4 8 0} \mathbf{1 9} \mathbf{0 9}$ | 10 |

For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.

Attention!
Use only with intermediate ring for central plate from the corresponding range.

Fibre-optic couplings:
Ackermann;
AMP;
Brand-Rex;
BTR;
CobiNet;
Corning;
Diamond;
Drahtex;
FiberCraft;
Huber+Suhner;
Krone;
Quante;
Telegärtner
$\square$ with supporting plate

- with $30^{\circ}$ oblique outlet
- 1 knock out opening
- for 1 or 2 fibre-optic couplings
- without spreader claws

Use only with intermediate ring for central plate from the corresponding range.

Fibre-optic couplings:
Ackermann;
AMP;
Brand-Rex;
BTR;
CobiNet;
Corning;
Diamond;
Drahtex;
Huber+Suhner;
Quante;
Telegärtner

- with supporting plate
- with $30^{\circ}$ oblique outlet
- for 2 fibre-optic couplings
- without spreader claws

| Central plate for 1 | D-subminiature connector |  |
| :--- | :--- | :---: |
| white, glossy | $\mathbf{1 4 1 1 0 2}$ | 10 |
| polar white, glossy | $\mathbf{1 4 1 1 0 9}$ | 10 |
| polar white, matt/velvety | $\mathbf{1 4 1 1 1 9 0 9}$ | 10 |

D-subminiature connectors see module inserts.

Attention!
Use only with intermediate ring for central plate from the corresponding range.
For D-subminiature connector order no. 1834, 1835, 1839
For mounting adapter order no. 1841, 1842
$\square$ with supporting plate
■ without spreader claws


Central plate for 2 D-subminiature connector
white, glossy 147002
polar white, glossy 14700910
polar white, matt/velvety 14701909
D-subminiature connectors see module inserts.

## Attention!

Use only with intermediate ring for central plate from the corresponding range.
Labelling field not usable.
For D-subminiature connector order no. 1834, 1835, 1839
For mounting adapter order no. 1841, 1842

- with supporting plate

■ without spreader claws

Order no.
Order no.
Packing
unit

## strips.

Mounting plates see acessories order no. 1111 .., 1112 ..

■ with supporting plate

- for mounting plates

■ without spreader claws

## SIGNALLING AND COMMAND UNITS



Central plate for transmitting and control device $\varnothing 18.8 \mathrm{~mm}$
white, glossy
polar white, glossy 143102 10
anthracite, matt 14310910

| poluminium, matt | 14311606 | 10 |
| :--- | :--- | :--- |
| alu11404 | 143110 |  |

stainless steel, 1431140410 143104 10
lacquered
polar white, matt/velvety 14311909 10

Screw distance 36 mm
For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.

Attention!
Use only with intermediate ring for central plate from the corresponding range.
Suitable for installation of equipotential bonding
built-in socket order no. 4604
Circular plug-in connector:
Amphenol-Tuchel;
Binder;
Cannon;
Farnell;
Hirose;
Hirschmann;
Lumberg;
Monacor;
RS Components;
Signalling and command units:
Lumitas;
Schlegel;
Extra low voltage jack:
PRO-CAR
■ with supporting plate
■ with cut-out dia. 18.8 mm
■ without spreader claws


| Central plate for signalling and control device Ø 22.5 mm |  |  |
| :---: | :---: | :---: |
| white, glossy | 143202 | 10 |
| polar white, glossy | 143209 | 10 |
| anthracite, matt | 14321606 | 10 |
| aluminium, matt | 14321404 | 10 |
| stainless steel, lacquered | 143204 | 10 |
| yellow, glossy | 143207 | 10 |
| polar white, matt/velvety | 14321909 | 10 |

Screw distance 36 mm
For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.

Attention!
Use only with intermediate ring for central plate from the corresponding range.

Signalling and command units:
Kraus-Naimer;
Lumitas;
Schlegel;
Overvoltage protection devices:
Dehn, order no. NM DK 280;
OBO-Bettermann, order no. KNS/IS-D
$\square$ with supporting plate

- with cut-out dia. 22.5 mm
- without spreader claws


## HOSPITAL INSTALLATION



Central plate for double pole socket outlet for floating output

| white, glossy | $\mathbf{1 4 0 3 0 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 4 0 3 0 9}$ | 10 |
| anthracite, matt | $\mathbf{1 4 0 3 \mathbf { 1 6 0 6 }}$ | 10 |
| aluminium, matt | $\mathbf{1 4 0 3 \mathbf { 1 4 0 4 }}$ | 10 |
| polar white, matt/velvety | $\mathbf{1 4 0 3 \mathbf { 1 9 0 9 }}$ | 10 |

Attention!
Use only with intermediate ring for central plate from the corresponding range.
For double pole socket outlet for floating output order no. 1061

For double pole socket outlet according to DIN 42801

- with imprint

Order no.
Packing
unit

| Central plate for 6pole socket outlet |  |  |
| :---: | :---: | :---: |
| white, glossy | 147402 | 10 |
| polar white, glossy | 147409 | 10 |
| anthracite, matt | 14741606 | 10 |
| aluminium, matt | 14741404 | 10 |
| stainless steel, lacquered | 147404 | 10 |
| polar white, matt/velvety | 14741909 | 10 |

Attention!
Use only with intermediate ring for central plate from the corresponding range.

Nurse call system:
Ackermann, clino opt 99, order no. 71008C3;
Nurse call systems:
Ackermann, clino opt 90, clino phon 95,
order no. 71008C;
Siedle, order no. AD 306-0;
6pole socket outlets:
Hirschmann, Medu 600, Medu 600 GSK

## Messrs. Ackermann

| Centre plate for databus termination |
| :--- |
| splitter/empty unit |


| white, glossy | $\mathbf{1 2 0 4} \mathbf{7 0 0 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 2 0 4 7 0 0 9}$ | 10 |

Nurse call system:
Ackermann, clino opt 90, 99 / clino phon 95, order no. 72642B;
Nurse call systems:
Ackermann, clino opt 90, 99 / clino phon 95, order no. 72642C, 72639A, 71197A
■ centre plate plug-in fixing


Nurse call system:
Ackermann, clino opt 99, order no. 74189A
$\square$ a-coded for dropping plug-and-socket connector
■ centre plate plug-in fixing

Order no.


Centre plate with red call push-button at top and a plug-in opening

| white, glossy | $\mathbf{1 2 1 7 7 0 0 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 2 1 7} \mathbf{7 0 0 9}$ | 10 |

Nurse call system:
Ackermann, clino opt 99, order no. 73071E,
73071E2, 73075A, 73073E

- for call push-button with plug-in contact
- for call module with call push-button and monitored auxiliary plug-in contact
- button with lens
- centre plate plug-in fixing



## Centre plate with red call button and 2 plug-in openings

| white, glossy | $\mathbf{1 2 1 8 7 1 0 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 2 1 8 7 1 0 9}$ | 10 |

Nurse call system:
Ackermann, clino opt 99, order no. 73071D,
73071D2, 73075B, 73073D
$\square$ for call push-button with diagnostic and auxiliary plug-in contact

- for call module with call push-button and plug-in contacts
$\square$ button with lens
- with imprint
- centre plate plug-in fixing


Centre plate with red call push-button at top
white, glossy 1216700210
polar white, glossy 1216700910

Nurse call system:
Ackermann, clino opt 99, order no. 73071F, 73071F2,
73073F

- for call module with call push-button
- button with lens
- centre plate plug-in fixing


## Centre plate with red call push-button

at bottom
white, glossy 1219700210
polar white, glossy 12197009

## Nurse call system:

Ackermann, clino opt 99, order no. 73022A, 73022A2

- for call push-button
$\square$ button with lens
- centre plate plug-in fixing

Order no.


Order no.
Packing

| Centre plate with green shut-off button |  |  |
| :--- | :---: | :--- |
| white, glossy | $\mathbf{1 2 5 1 7 0 0 2}$ | 10 |
| polar white, glossy | $\mathbf{1 2 5 1 7 0 0 9}$ | 10 |

Nurse call system:
Ackermann, clino opt 99, order no. 73642C

- for shut-off push-button
$\square$ button with lens
- centre plate plug-in fixing



| Centre plate for call unit |  |  |
| :--- | :--- | :--- |
| with blue doctor call button |  |  |
| white, glossy | $\mathbf{1 2 2 3} 7102$ | 10 |
| polar white, glossy | $\mathbf{1 2 2 3} 7109$ | 10 |

## Nurse call system:

Ackermann, clino opt 99, order no. 73022A, 73022A2
■ for call push-button
■ button with lens

- with imprint

■ centre plate plug-in fixing


| Centre plate with red call button <br> and green shut-off button |
| :--- | :--- | :--- |
| white, glossy $\mathbf{1 2 4 9} \mathbf{7 0 0 2}$ 10 <br> polar white, glossy $\mathbf{1 2 4 9} \mathbf{7 0 0 9}$ 10 |

Nurse call system:
Ackermann, clino opt 99, order no. 73642B2
■ for call push-button and shut-off push-button

- buttons with lens

■ centre plate plug-in fixing

## Centre plate with green

and yellow shut-off button
white, glossy 12537002
polar white, glossy 12537009

Nurse call system:
Ackermann, clino opt 99, order no. 73642E
■ for shut-off push-button
$\square$ buttons with lens

- centre plate plug-in fixing


Centre plate with green presence button/white acknowledge button
white, glossy 1299710210
polar white, glossy 12997109

Nurse call system:
Ackermann, clino opt 99, order no. 73642B

- for office unit
- buttons with lens

■ with imprint „SU-AUS WARTEN"

- centre plate plug-in fixing

| $l$ |  |  |
| :--- | :--- | :--- |
| Centre plate for pneumatic call switch <br> with lens |  |  |
| white, glossy | $\mathbf{1 2 3 6} \mathbf{7 0 0 2}$ | 10 |
| polar white, glossy | $\mathbf{1 2 3 6} \mathbf{7 0} \mathbf{0 9}$ | 10 |

Nurse call system:
Ackermann, clino opt 99, order no. 70006C;
Nurse call systems:
Ackermann, clino opt 90, 99 / clino phon 95,
order no. 70006A, 70006B
■ centre plate plug-in fixing
Centre plate for pullcord push-button with lens
white, glossy 1233700210

| polar white, glossy | 12337009 | 10 |
| :--- | :--- | :--- |

Nurse call systems:
Ackermann, clino opt 90, 99 / clino phon 95, order no. 70045A3, 70046A3, 70046A
■ for pullcord push-button with pullcord and knob
■ centre plate plug-in fixing


Centre plate for radio programme system with small sound system

| white, glossy | $\mathbf{1 3 0 0} \mathbf{7 1 0 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 3 0 0} \mathbf{7 1 0 9}$ | 10 |

Nurse call systems:
Ackermann, clino opt 90, 99 / clino phon 95,
order no. 73120C, 73120 H
$\square$ for earpiece and volume control

- with imprinted symbol curve

■ centre plate plug-in fixing
Centre plate for radio programme selector switch

| white, glossy | $\mathbf{1 3 0 1 7 1 0 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 3 0 1 7 1 0 9}$ | 10 |

## Nurse call systems:

Ackermann, clino opt 90, 99 / clino phon 95, order no. 73120A
■ with imprint „0-1-2-3-4-5"
■ centre plate plug-in fixing

## Berker Arsys

## Surface range, flush-mounted system

The elegant design, timelessly appealing colours and materials such as stainless steel offer you a wide variety of products to suit the most diverse interior styles.

- Available surfaces: white, polar white, brown, gold metal, metal light bronze, stainless steel


## Berker Arsys Gold

- The metallic version for customers who wish to add a touch of luxury to their interior design, right down to the last detail


## Berker Arsys IP44

The splash-protected flush-mounted range is designed for flush installation on smooth, continuous wall surfaces, for example tiled walls that need to meet very tough cleaning or hygiene requirements.

- Easy hygienic cleaning of the surface
- Available surface: stainless steel


| Frames | 236-237 | Berker Light Control | 248-251 |
| :---: | :---: | :---: | :---: |
| Surface-mounted frames | 237 | Thermostats | 252-253 |
| Socket outlets | 238-241 | Rollotec | 253-255 |
| Covers switches/push-buttons | 241-245 | Entertainment electronics | 256-257 |
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Order no.
Packing
Order no.
Packing



Order no.
Order no.
Packing
unit
SOCKET OUTLETS
SCHUKO-socket outlets


I on page T6

| SCHUKO socket outlet |  |  |
| :---: | :---: | :---: |
| white, glossy | 47150002 | 10 |
| polar white, glossy | 47150069 | 10 |
| brown, glossy | 47150001 | 10 |
| light bronze, metal | 47140001 | 10 |
| stainless steel | 47140004 | 10 |
| gold, metal | 47140002 | 10 |
| red, glossy | 47150062 | 10 |
| white, glossy, enhanced contact protection IEC 60884-1 | 47350002 | 10 |
| polar white, glossy, enhanced contact protection IEC 60884-1 | 47350069 | 10 |
| brown, glossy, enhanced contact protection IEC 60884-1 | 47350001 | 10 |
| light bronze, metal, enhanced contact protection IEC 60884-1 | 47340001 | 10 |
| stainless steel, enhanced contact protection IEC 60884-1 | 47340004 | 10 |
| gold, metal, enhanced contact protection IEC 60884-1 | 47340002 | 10 |
| $16 \mathrm{~A}, 250 \mathrm{~V} \sim$ |  |  |



I on page T6

| SCHUKO socket outlet |  |  |
| :---: | :---: | :---: |
| white, glossy | 41150002 | 10 |
| polar white, glossy | 41150069 | 10 |
| brown, glossy | 41150001 | 10 |
| light bronze, metal | 41140001 | 10 |
| stainless steel | 41140004 | 10 |
| white, glossy, enhanced contact protection IEC 60884-1 | 41350002 | 10 |
| polar white, glossy, enhanced contact protection IEC 60884-1 | 41350069 | 10 |
| brown, glossy, enhanced contact protection IEC 60884-1 | 41350001 | 10 |
| light bronze, metal, enhanced contact protection IEC 60884-1 | 41340001 | 10 |
| stainless steel, enhanced contact protection IEC 60884-1 | 41340004 | 10 |
| gold, metal, enhanced contact protection IEC 60884-1 | 41340002 | 10 |
| $16 \mathrm{~A}, 250 \mathrm{~V} \sim$ |  |  |

Connection terminals IEC 60884-1
■ with screw-in lift terminals

The insert of the red socket outlet is colour-coded.

Connection terminals IEC 60884-1
with plug-in terminals


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1 on page T6


I on page T6

$$
0
$$

$$
10
$$

$$
10
$$

Specially suited for combining several socket outlets if right angle plugs are used.

Connection terminals IEC 60884-1
■ for diagonal installation
■ with plug-in terminals
SCHUKO socket outlet with labelling field
white, glossy 47390002
polar white, glossy $\quad 4739006910$
4739000110

4739900410
stainless steel, $\quad 47399004$
lacquered
white, glossy, enhanced 4738000210 contact protection
IEC 60884-1
polar white, glossy, 47380069 enhanced contact
protection IEC 60884-1
brown, glossy, enhanced 4738000110
contact protection
IEC 60884-1
$16 \mathrm{~A}, 250 \mathrm{~V} \sim$
Labelling field height arranged for 6 mm P-touch strips.

Connection terminals IEC 60884-1
■ with plug-in terminals
SCHUKO socket outlet with indicator lamp
light bronze, metal 416200010
stainless steel 41620004
$16 \mathrm{~A}, 250 \mathrm{~V}$ ~
Neon lamp current 1,5 mA

Replacement neon lamp unit see module inserts / accessories order no. 1609

Connection terminals IEC 60884-1
■ with neon lamp unit

- with screw-in lift terminals

Order no.
Packing
unit


I on page T6 with imprint „,SV"
orange, glossy,
41260077
SCHUKO socket outlet indicator lamp and imprint

| red, glossy, <br> with white imprint „EDV" | $\mathbf{4 1 6 1 0 1 8 2}$ | 10 |
| :--- | ---: | :---: |
| green, glossy, <br> with imprint „SV" | $\mathbf{4 1 2 6 0 0 7 3}$ | 10 |
| orange, glossy, <br> with imprint „ZSV" | $\mathbf{4 1 2 6 0 0 7 7}$ | 10 |

16 A, 250 V~
Neon lamp current 1,5 mA
Insert colour-coded.
Replacement neon lamp unit see module inserts / accessories order no. 1609

Execution SV, ZSV to VDE 0100-710
Connection terminals IEC 60884-1
$\square$ with neon lamp unit
$\square$ with screw-in lift terminals


1 on page T6

## SCHUKO socket outlet

with indicator lamp and labelling field

| white, glossy | $\mathbf{4 1 6 1 0 0 0 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{4 1 6 1 0 0 6 9}$ | 10 |
| brown, glossy | $\mathbf{4 1 6 1 0 0 0 1}$ | 10 |

,
$16 \mathrm{~A}, 250 \mathrm{~V} \sim$
Neon lamp current 1,5 mA
Labelling field height arranged for 6 mm P-touch strips.

Replacement neon lamp unit see module inserts / accessories order no. 1609

Connection terminals IEC 60884-1

- with neon lamp unit
with screw-in lift terminals
SCHUKO-socket outlets with safety device


Il on page T33

SCHUKO socket outlet with overvoltage protection and labelling field

| white, glossy | $\mathbf{4 1 5 2 0 0 0 2}$ | 1 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{4 1 5 2 0 0 6 9}$ | 1 |
| brown, glossy | $\mathbf{4 1 5 2 0 0 0 1}$ | 1 |

stainless steel, 41529004 lacquered
$16 \mathrm{~A}, 250 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}$

Labelling field height arranged for 6 mm P-touch strips.

Overvoltage protection to EN 61643
and VDE 0675-6, -11
Connection terminals IEC 60884-1

- with imprint

■ with indicator LED for "on/error"
$\square$ with acoustic fault signal
$\square$ with screw terminals

Order no.
Packing
unit

## SCHUKO-socket outlets



SCHUKO socket outlet with hinged cover
white, glossy, enhanced 4747000210
contact protection
IEC 60884-1
polar white, glossy, 4747006910
enhanced contact
protection IEC 60884-1
brown, glossy, enhanced 4747000110
contact protection IEC
60884-1
light bronze, metal, 475700010
enhanced contact
protection IEC 60884-1
stainless steel, 47570004
enhanced contact
protection IEC 60884-1
gold, metal, enhanced 4757000210
contact protection
IEC 60884-1
$16 \mathrm{~A}, 250 \mathrm{~V} \sim$
Specially suited for combining several socket outlets if right angle plugs are used.

Connection terminals IEC 60884-1
$\square$ with imprint
mounting orientation of insert selectable in $45^{\circ}$ steps
$\square$ when opening hinged cover, it can be arrested in end position

- with plug-in terminals


1 on page T6
SCHUKO socket outlet with hinged cover white, glossy, enhanced 41470002 10 contact protection
IEC 60884-1
polar white, glossy, 41470069 enhanced contact protection IEC 60884-1
brown, glossy, enhanced 4147000110
contact protection
IEC 60884-1
$16 \mathrm{~A}, 250 \mathrm{~V} \sim$
Specially suited for combining several socket outlets if right angle plugs are used.

Connection terminals IEC 60884-1
■ with imprint

- with screw terminals

Order no.
Packing
Order no.
Packing
unit


I on page T6

| SCHUKO socket outlet with hinged cover and labelling field |  |  |
| :---: | :---: | :---: |
| white, glossy, enhanced contact protection IEC 60884-1 | 47480002 | 10 |
| polar white, glossy, enhanced contact protection IEC 60884-1 | 47480069 | 10 |
| brown, glossy, enhanced contact protection IEC 60884-1 | 47480001 | 10 |
| light bronze, metal, enhanced contact protection IEC 60884-1 | 47580001 | 10 |
| stainless steel, enhanced contact protection IEC 60884-1 | 47580004 | 10 |
| gold, metal, enhanced contact protection IEC 60884-1 | 47580002 | 10 |

Specially suited for combining several socket outlets if right angle plugs are used.

Labelling field height arranged for 6 mm P-touch strips.

Connection terminals IEC 60884-1
■ with imprint

- mounting orientation of insert selectable in $45^{\circ}$ steps
$\square$ when opening hinged cover, it can be arrested in end position
- with plug-in terminals


1 on page T6

Double SCHUKO socket outlet with frame

| white, glossy | 47530002 | 10 |
| :---: | :---: | :---: |
| polar white, glossy | 47530069 | 10 |
| brown, glossy | 47530001 | 10 |
| white, glossy, enhanced contact protection IEC 60884-1 | 47290002 | 10 |
| polar white, glossy, enhanced contact protection IEC 60884-1 | 47290069 | 10 |
| brown, glossy, enhanced contact protection IEC 60884-1 | 47290001 | 10 |
| light bronze, lacquered, enhanced contact protection IEC 60884-1 | 47299011 | 10 |
| stainless steel, lacquered, enhanced contact protection IEC 60884-1 | 47299004 | 10 |
| $16 \mathrm{~A}, 250 \mathrm{~V} \sim$ Assembling height 22 m |  |  |

For fitting in 1gang wall boxes according to
DIN 49073-1
Connection terminals IEC 60884-1
■ with plug-in terminals

Socket outlets without earth contact


Socket outlet without earth contact
white, glossy 6161150002
polar white, glossy $\quad 6161150069 \quad 10$
light bronze, metal 61611400010
stainless steel 6161140004
10
I on page T6
white, glossy, enhanced 6161150102
10
contact protection
IEC 60884-1
polar white, glossy, 616115016910
enhanced contact
protection IEC 60884-1
brown, glossy, enhanced 616115010110
contact protection
IEC 60884-1
light bronze, metal, 61611401010
enhanced contact protection IEC 60884-1
stainless steel, 6161140104
enhanced contact
protection IEC 60884-1
16 A, 250 V~
Mirror depth 8 mm

Connection terminals IEC 60884-1
■ 2pole
■ without spreader claws
■ with screw terminals

## Socket outlets with earth pin



Socket outlet with earth pin
white, glossy, enhanced 676575000210
contact protection
IEC 60884-1
polar white, glossy, $\quad 6765750069$
enhanced contact
I on page T6 protection IEC 60884-1
brown, glossy, enhanced 676575000110
contact protection
IEC 60884-1
light bronze, metal, 67657400010
enhanced contact
protection IEC 60884-1
stainless steel, $\quad 6765740004$
enhanced contact
protection IEC 60884-1
red, glossy, enhanced 676575006210
contact protection
IEC 60884-1
green, glossy, enhanced 676575006310
contact protection
IEC 60884-1
$16 \mathrm{~A}, 250 \mathrm{~V} \sim$
The insert of the red and green socket outlets is colour-coded.

Connection terminals IEC 60884-1

- 2pole + earth
- with screw-in lift terminals

Order no.


Socket outlet with earth pin white, glossy, enhanced 676875000210 contact protection
IEC 60884-1
polar white, glossy
6768750069
enhanced contact
I on page T6
protection IEC 60884-1
brown, glossy, enhanced 6768750001
contact protection
IEC 60884-1
light bronze, metal, $6768740001 \quad 10$
enhanced contact
protection IEC 60884-1
stainless steel, 6768740004
enhanced contact
protection IEC 60884-1
red, glossy, enhanced
contact protection
IEC 60884-1
green, glossy, enhanced 676875006310
contact protection
IEC 60884-1
16 A, 250 V~
The insert of the red and green socket outlets is colour-coded.

Connection terminals IEC 60884-1

- 2pole + earth
- with plug-in terminals

British Standard socket outlets


Socket outlet with earth contact, British Standard, can be switched off white, glossy, with 63470002 enhanced contact protection
polar white, glossy,
1] on page T6
with enhanced contact
protection
brown, glossy, with 6347000110
enhanced contact
protection
light bronze, lacquered, $63479011 \quad 10$
with enhanced contact
protection
stainless steel, $\quad 63479004$
lacquered, with
enhanced contact
protection
13 A, 250 V~
Equates to standard BS 1363: Part 2.
Not for the UK.
For fitting in standard wall boxes according to
DIN 49073-1
2pole + earth

- without neon lamp
- without spreader claws
- with screw terminals

Order no.

## NEMA socket outlets

| THermentin | Socket outlet with earth contact, USA/CANADA, NEMA 5-15 R |  |  |
| :---: | :---: | :---: | :---: |
|  | white, glossy | 41670002 | 10 |
| 11 | polar white, glossy | 41670069 | 10 |
|  | light bronze, lacquered | 41679011 | 10 |
|  | stainless steel, | 41679004 | 10 |
| 1 on page T6 | lacquered |  |  |

I on page T6 lacquered
$15 \mathrm{~A}, 125 \mathrm{~V} \sim$

Not UL-certified.

Equates to standard NEMA 5-15 R

- 2pole + earth
- without spreader claws
- with screw terminals


I on page T6 lacquered
$20 \mathrm{~A}, 125 \mathrm{~V} \sim$
Not UL-certified.

Equates to standard NEMA 5-20 R

- 2pole + earth
- without spreader claws
$\square$ with screw terminals


## Euro-American socket outlets



1 on page T6
Socket outlet without earth contact "Euro-American Standard"
white, glossy 41700002
polar white, glossy $\quad 4170006910$
brown, glossy 41700001
light bronze, metal 417400010
stainless
41740004
$15 \mathrm{~A}, 125 \mathrm{~V} \sim$
Only for Asia!

Connection terminals IEC 60884-1

- 2pole
- with screw terminals


## COVERS SWITCHES/PUSH-BUTTONS

Rocker adapters/rockers adapters


Rocker adapter
black, for rocker switch \#186600 01
10
and rocker push-button
white, for rocker switch \#18670001
2- and 3pole on/off

For area rockers with „pin" (from 1983) on module switch inserts with „small rocker" (1967-1983).

Order no.
Packing
unit
Rockers adapter
for rockers switches and \#1868 0001 10
rockers push-buttons

For area rockers with "pin" (from 1983) on module switch inserts with „small rocker" (1967-1983).

| Rockers |  |  |  |
| :---: | :---: | :---: | :---: |
|  | Rocker |  |  |
|  | white, glossy | 14050002 | 10 |
|  | polar white, glossy | 14050069 | 10 |
|  | brown, glossy | 14050001 | 10 |
|  | light bronze, metal | 14040001 | 10 |
|  | stainless steel | 14040004 | 10 |
|  | gold, metal | 14040002 | 10 |
|  | for rocker switches change-over, intermediate $\square$ for rocker push-buttons |  |  |

Rocker with labelling field

| white, glossy | $\mathbf{1 4 2 6 0 0 0 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 4 2 6 0 0 6 9}$ | 10 |
| brown, glossy | $\mathbf{1 4 2 6 0 0 0 1}$ | 10 |
| light bronze, metal | $\mathbf{1 4 3 6 0 0 0 1}$ | 10 |
| stainless steel | $\mathbf{1 4 3 6 0 0 0 4}$ | 10 |
| gold, metal | $\mathbf{1 4 3 6 0 0 0 2}$ | 10 |

Labelling field height arranged for 6 mm P-touch strips for labelling with names, notes etc.

■ for rocker switches change-over, intermediate
$■$ for rocker push-buttons

- for push-button BCU 1gang and group push-button BCU 1gang
Rocker with large labelling field
clear 148700

| Labelling field height arranged for two 24-mm |
| :--- |
| P-touch strips for labelling with names, notes etc. |

$\square$ for rocker switches change-over, intermediate
$\square$ for rocker push-buttons
$\square$ for push-button BCU 1gang and group push-button
BCU 1gang

|  | Rocker with 5 lenses attached |  |  |
| :---: | :---: | :---: | :---: |
|  | white, glossy | 14150002 | 10 |
|  | polar white, glossy | 14150069 | 10 |
|  | brown, glossy | 14150001 | 10 |
|  | light bronze, metal | 14160001 | 10 |
|  | stainless steel | 14160004 | 10 |
|  | gold, metal | 14160002 | 10 |

Lenses with symbol for light, bell, door and neutral in clear, also neutral in red transparent.

■ for rocker switches change-over, intermediate
■ for rocker push-buttons
■ for push-button BCU 1gang and group push-button BCU 1gang
■ for illumination and monitoring circuit

Order no.
Packing
unit

| Heizung Notschalter | Rocker with red lens |
| :---: | :---: |
|  | and „Heizung Notschalter" imprint |
|  | red, glossy 14880062 |
|  | Or use glass pane protected heating emergency switch. |
|  | Not suitable for heating systems > 50 kW . |
|  | for rocker switches change-over, intermediate for rocker push-buttons |
|  | for push-button BCU 1gang and group push-button BCU 1gang <br> for monitoring circuit |

Rocker with 5 lenses attached and labelling field
white, glossy 1415020210
polar white, glossy 14150269
brown, glossy 14150201
10
1415020110
$14160201 \quad 10$
14160204
10

Labelling field height arranged for 6 mm P-touch strips for labelling with names, notes etc.

Lenses with symbol for light, bell, door and neutral in clear, also neutral in red transparent.

■ for rocker switches change-over, intermediate

- for rocker push-buttons

■ for push-button BCU 1gang and group push-button BCU 1gang

- for illumination and monitoring circuit


## Emergency switch covers

Centre plate with glass screen, rocker and adhesive label sheets
red, glossy 12970000
10
Nuncticter
Adhesive label sheets, text white: „Notschalter", „Rauchabzug", „Feuerschutztür schließen",
„Feuerabschluss schließen", „Heizung", „Lichtkuppel", "Hausalarm" und „Öffnen" supplied.

Not suitable for heating systems $>50 \mathrm{~kW}$.
In case of danger break glass and press rocker!

- for rocker switches change-over, intermediate
- for rocker push-buttons

■ for push-button BCU 1gang and group push-button BCU 1gang

Order no.
Packing
unit

| Rockers |  |  |  |
| :--- | :--- | :--- | :--- |
|  | Rocker with imprint „0" |  |  |
|  | white, glossy | $\mathbf{1 4 2 5 0 0 0 2}$ | 10 |
|  | polar white, glossy | $\mathbf{1 4 2 5 0 0 6 9}$ | 10 |
|  | brown, glossy | $\mathbf{1 4 2 5 0 0 0 1}$ | 10 |
|  | light bronze, metal | $\mathbf{1 4 2 4} \mathbf{0 0} \mathbf{0 1}$ | 10 |
|  | stainless steel | $\mathbf{1 4 2 4 0 0 0 4}$ | 10 |
|  | gold, metal | $\mathbf{1 4 2 4 0 0} \mathbf{0 2}$ | 10 |

For rocker switch 2pole on/off order no. 3032 ..
For rocker switch 3pole on/off order no. 303303

■ for multi-pole rocker switch with predefined 0 position


Rocker with red lens and imprint „0"

| white, glossy | 14170002 | 10 |
| :---: | :---: | :---: |
| polar white, glossy | 14170069 | 10 |
| brown, glossy | 14170001 | 10 |
| light bronze, metal | 14180001 | 10 |
| stainless steel | 14180004 | 10 |
| gold, metal | 14180002 | 10 |

For rocker switch 2pole on/off order no. 3032 ..
For rocker switch 3pole on/off order no. 303303

■ for multi-pole rocker switch with predefined 0 position

- for group push-button BCU 1gang

■ for illumination and monitoring circuit

## Rotary switches

Centre plate with rotary knob for rotary switch


| white, glossy | $\mathbf{1 1 5 0} \mathbf{0 0 0 2}$ | 1 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 1 5 0} \mathbf{0 0 6 9}$ | 1 |
| brown, glossy | $\mathbf{1 1 5 0} \mathbf{0 0 0 1}$ | 1 |
| light bronze, metal | $\mathbf{1 1 5 0} \mathbf{1 0 0 1}$ | 1 |
| stainless steel | $\mathbf{1 1 5 0} \mathbf{1 0 0 4}$ | 1 |
| gold, metal/polar white | $\mathbf{1 1 5 0} \mathbf{1 0 0 2}$ | 1 |

for order no. 3862 ..

■ with imprint „0" and „1"

## Rockers

| Rockers |  |  |
| :--- | :--- | :--- |
| white, glossy | $\mathbf{1 4 3 5 0 0 0 2}$ | 10 |
| polar white, glossy | $\mathbf{1 4 3 5 0 0 6 9}$ | 10 |
| brown, glossy | $\mathbf{1 4 3 5 0 0 0 1}$ | 10 |
| light bronze, metal | $\mathbf{1 4 3 4 0 0 0 1}$ | 10 |
| stainless steel | $\mathbf{1 4 3 4 0 0 0 4}$ | 10 |
| gold, metal | $\mathbf{1 4 3 4 0 0 0 2}$ | 10 |

$\square$ for rockers switches

- for rockers push-buttons and group rockers pushbuttons
$■$ for push-button BCU 2gang and group push-button BCU 2gang

Order no.


Rockers for rockers switch 3gang on/off

| white, glossy | $\mathbf{1 4 6 5 0 0 \mathbf { 0 2 }}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 4 6 5 0 0 6 9}$ | 10 |
| brown, glossy | $\mathbf{1 4 6 5 0 0 \mathbf { 0 1 }}$ | 10 |
| light bronze, lacquered | $\mathbf{1 4 6 5 \mathbf { 9 0 1 1 }}$ | 10 |
| stainless steel, | $\mathbf{1 4 6 5 9 0 \mathbf { 0 4 }}$ | 10 |
| lacquered |  |  |
|  |  |  |
| For rockers switch 3gang on/off order no. 6330 |  |  |

Rockers with imprinted symbol arrow

| white, glossy | $\mathbf{1 4 3 5 0 1 0 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 4 3 5 0 1 6 9}$ | 10 |
| brown, glossy | $\mathbf{1 4 3 5 0 1 0 1}$ | 10 |
| light bronze, metal | $\mathbf{1 4 3 4 0 1 0 1}$ | 10 |
| stainless steel | $\mathbf{1 4 3 4 0 1 0 4}$ | 10 |
| gold, metal | $\mathbf{1 4 3 4 0 1 0 2}$ | 10 |

For rockers switch for shutters order no. 303520
For rockers push-button for shutters order no. 503520
For push-button BCU 2gang order no. 75142000


| Rocker with imprinted symbol arrows |  |  |
| :--- | :---: | :---: |
| white, glossy | $\mathbf{1 4 0 5 0 3 0 2}$ | 10 |
| polar white, glossy | $\mathbf{1 4 0 5 0 3 6 9}$ | 10 |
| brown, glossy | $\mathbf{1 4 0 5 0 3 0 1}$ | 10 |
| light bronze, metal | $\mathbf{1 4 0 4 0 3 0 1}$ | 10 |
| stainless steel | $\mathbf{1 4 0 4 0 3 0 4}$ | 10 |
| gold, metal | $\mathbf{1 4 0 4 0 3 0 2}$ | 10 |

For group push-button BCU 1gang order no. 75141100


| Rockers with imprinted symbol arrows |  |  |
| :--- | :---: | :--- |
| white, glossy | $\mathbf{1 4 3 5 0 3 0 2}$ | 10 |
| polar white, glossy | $\mathbf{1 4 3 5 0 3 \mathbf { 0 9 }}$ | 10 |
| brown, glossy | $\mathbf{1 4 3 5 0 3 0 1}$ | 10 |
| light bronze, metal | $\mathbf{1 4 3 4 0 3 0 1}$ | 10 |
| stainless steel | $\mathbf{1 4 3 4} \mathbf{0 3 0 4}$ | 10 |
| gold, metal | $\mathbf{1 4 3 4 0 3 0 2}$ | 10 |

For group rockers push-button as 2pole rockers push-button for shutters with middle positions order no. 503404
For group push-button BCU 2gang order
no. 75142100

|  |  | Order no. | $\begin{gathered} \text { Packing } \\ \text { unit } \end{gathered}$ |
| :---: | :---: | :---: | :---: |
| Rockers screw-on |  |  |  |
|  | Rocker screw-on stainless steel <br> - with cover plug for s <br> - for rocker switches <br> - for rocker push-butt | 14040010 <br> rew fitting ange-over, in s | 10 <br> diate |
|  | Rocker screw-on w stainless steel <br> Lenses with symbol fo clear, also neutral in red <br> - with cover plug for s <br> - for rocker switches <br> - for rocker push-butt <br> - for illumination and | h 5 lenses 14140010 <br> light, bell, do transparent. <br> rew fitting ange-over, in ss onitoring circu | 10 <br> neutral in <br> diate |
|  | Rockers screw-on <br> stainless steel <br> - with cover plug for s <br> - for rockers switches <br> - for rockers push-but buttons | 14340010 <br> rew fitting <br> ns and group | 10 <br> s push- |
| Hotel card switch |  |  |  |
|  | Hotel card switch c and red lens white, glossy polar white, glossy brown, glossy | ver with imp <br> 16410002 <br> 16410069 <br> 16410001 | $\begin{aligned} & 10 \\ & 10 \\ & 10 \end{aligned}$ |
| Ion page T6 | light bronze, lacquered stainless steel, lacquered | $\begin{aligned} & 16419011 \\ & 16419004 \end{aligned}$ | 10 10 |
|  | Max. card width 54 mm Card strength 0,5-1,4 <br> Other imprint on reque <br> For push-button inser order no. 5051 02, 505 | mm <br> ! <br> for hotel card 03, 5052 01, | covers |
| Pullcord switches/pullcord push-buttons |  |  |  |
| $\bullet$ | Centre plate for pull and pullcord push-b white, glossy polar white, glossy brown, glossy light bronze, lacquered stainless steel, lacquered | ord switch utton <br> 11470002 <br> 11470069 <br> 11470001 <br> 11479011 <br> 11479004 | $\begin{aligned} & 10 \\ & 10 \\ & 10 \\ & 10 \\ & 10 \end{aligned}$ |

## 3-step switches


Centre plate with rotary knob for 3-step switch
white, glossy, without $1088 \mathbf{0 0 0 2}$
O-position
acking
unit
polar white, glossy,
10880069
1
without 0-position
brown, glossy, without 10880001
0 -position
light bronze, metal, 10880101
without 0-position
stainless steel, without 10880104
0 -position
gold, metal/polar white, 108801021
without 0-position
white, glossy, with
10870002
neutral-position
polar white, glossy, with 108700691
neutral-position
brown, glossy, with 10870001
neutral-position
light bronze, metal, with $10870101 \quad 1$
neutral-position
stainless steel, with 10870104
neutral-position
gold, metal/polar white, 108701021 with neutral-position

For 3-step switch with 0-position order no. 3861
For 3-step switch without 0-position order
no. 3861 01, 61386101

■ with imprint
Rotary switches/rotary push-buttons for shutters
Centre plate with rotary knob for rotary switch for shutters
white, glossy 10770002
polar white, glossy 10770069
brown, glossy
light bronze, metal
10770001
stainless steel
gold, metal/polar white 10770104 10770102

Interlock disk for conversion to push-button see
module inserts order no. 1861
Rotary switch for shutters order no. 3841, 3842

- with imprint

For pullcord push-button order no. 395619 For pullcord switch order no. 3962, 3966, 613966

Order no.
Order no.


Centre plate with lock for key switch for shutters

| white, glossy, key remo- <br> vable in mid position | $\mathbf{1 0 7 9} \mathbf{0 0 0 2}$ | 1 |
| :--- | :---: | :---: |
| polar white, glossy, <br> key removable in mid <br> position <br> brown, glossy, key <br> removable in mid <br> position | $\mathbf{1 0 7 9 0 0 6 9}$ | 1 |
| light bronze, metal, | $\mathbf{1 0 7 9 0 0 0 1}$ | 1 |
| $\mathbf{1 0 3 0 1}$ | 1 |  |

light bronze, metal,
key removable in mid
position

| stainless steel, key | 10790304 | 1 |
| :--- | :--- | :--- |
| removable in mid |  |  |
| position |  |  |

gold, metal/polar white,
107903021
key removable in mid
position
white, glossy, key remo-
vable in 3 positions
polar white, glossy, key
$10790169 \quad 1$
removable in 3 positions
brown, glossy, key
removable in 3 positions
light bronze, metal, key
$10790101 \quad 1$
removable in 3 positions
stainless steel, key removable in 3 positions
gold, metal/polar white, 107904021
key removable in 3
positions

For key switch for shutters order no. 3851, 3852

■ with imprint

- with push lock function
with 2 keys



## Centre plate with lock for key switch

 for shutterswhite, glossy, key remo- 10790202 vable in mid position
polar white, glossy,
key removable in mid
position
brown, glossy, key
10790201
1
removable in mid
position
light bronze, metal, 10790501 key removable in mid position
stainless steel, key 10790504
removable in mid
position
gold, metal/polar white, 107905021 key removable in mid position

For key switch for shutters order no. 3851, 3852

- with imprint

■ only push-button function

- with 2 keys

Order no.
Order no.

| Centre plate with labelling field for push-button and pilot lamp E10 |  |  |
| :---: | :---: | :---: |
|  |  |  |
| white, glossy | 11650002 | 10 |
| polar white, glossy | 11650069 | 10 |
| brown, glossy | 11650001 | 10 |
| Cut-out diameter 27,2 mm |  |  |
| Buttons and covers see module inserts. |  |  |
| For push-buttons with hinged cover, use hinged cover order no. 1140 .. |  |  |
| Labelling field height arranged for 6 mm P-touch strips. |  |  |
| For push-button and pilot lamp E10 order no. 5101 .. |  |  |
| - centre plate plug-in fixing |  |  |
| Cover for push-button and pilot lamp E10 |  |  |
| clear | 12470004 | 10 |
| The mirror image texts on the backside only become visible when the signal is illuminated. |  |  |
| With 10 labelling fields: „Bitte warten", „Bitte eintreten", „Nicht eintreten", „Bitte Ruhe", "Der Nächste bitte", „Aufzug kommt", symbol arrow, „Besetzt", 2x neutral. <br> For push-button and pilot lamp E10 order no. 5101 |  |  |
| Centre plate for pilot lamp E14 |  |  |
| white, glossy | 11670002 | 10 |
| polar white, glossy | 11670069 | 10 |
| brown, glossy | 11670001 | 10 |
| light bronze, lacquered | 11679011 | 10 |
| stainless steel, lacquered | 11679004 | 10 |

LEDs, incandescent lamps and covers see module inserts.
For pilot lamp E14 order no. 513102


I on page T29

| Centre plate for push-button <br> and pilot lamp E10 |  |  |
| :--- | :--- | :--- |
| light bronze, metal | $\mathbf{1 1 6 5 0 1 0 1}$ | 10 |
| stainless steel | $\mathbf{1 1 6 5 0 1 0 4}$ | 10 |
| gold, metal | $\mathbf{1 1 6 5 0 1 0 2}$ | 10 |

Push-buttons, LEDs, neon lamps and covers see module inserts.
For push-button and pilot lamp E10 order no. 5101 ..

- centre plate plug-in fixing

| Info pilot lamp cover with 5 label sheets |  |  |
| :---: | :---: | :---: |
| white, glossy | 13450002 | 1 |
| polar white, glossy | 13450069 | 1 |
| brown, glossy | 13450001 | 1 |
| light bronze, lacquered | 13459011 | 1 |
| stainless steel, lacquered | 13459004 | 1 |
| Current input 25 mA ; LED output 800 mW |  |  |
| Labels supplied: „Nicht eintreten", „Besetzt", "Bitte eintreten", „Bitte Ruhe", „Bitte warten". |  |  |
| Coloured cover plate see module inserts order no. 1289 .. <br> For insert info pilot lamp order no. 2949 |  |  |
|  |  |  |
| with 4 light intensity very long LED lifetim with clear cover pla |  |  |

Order no.
Packing
unit TIMERS


Centre plate with setting knob for mechanical timer

| white, glossy, <br> max. 15 min | $\mathbf{1 6 3 4 0 0 0 2}$ | 1 |
| :--- | :--- | :--- |
| polar |  |  |

polar white, glossy, $16340069 \quad 1$
max. 15 min
brown, glossy, 16340001
max. 15 min
light bronze, metal max. 15 min
stainless steel,
max. 15 min
gold, metal/polar white,
max. 15 min
white, glossy,
max. 120 min
polar white, glossy,
max. 120 min
brown, glossy, max.
120 min
light bronze, metal, max. 120 min
stainless steel,
max. 120 min
gold, metal/polar white, 163501021
max. 120 min

Mechanical automatic timer 15 min order no. 2040
Mechanical automatic timer 120 min order no. 2041

- with time scale imprint


I on page T7

## Easy timer with display

| white, glossy | $\mathbf{1 7 3 5 0 0 0 2}$ | 1 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 7 3 5 0 0 6 9}$ | 1 |
| brown, glossy | $\mathbf{1 7 3 5 0 0 0 1}$ | 1 |
| light bronze, lacquered | $\mathbf{1 7 3 5 9 0 1 1}$ | 1 |
| stainless steel, | $\mathbf{1 7 3 5 9 0 0 4}$ | 1 | lacquered

Per programme block 2 switching times for „on/off"; Power reserve approx. 4 hrs., maintenance-free

For manual and timer programmed switching of electrical loads.

For insert for timer order no. 2948

- simple programming of switching times
- with quick programming mode
$\square$ for approx. 4 h after removing insert programmable
■ 2 programme blocks Mon. - Fri. and Sat. - Sun.
$\square$ with automatic summer-/winter time switching (can be switched off)
- large-area display with symbols
- display of next switching time
- with slide switch for manual/automatic

Order no.


I on page T7
Timer with display

| white, glossy | $\mathbf{1 7 3 6 0 0 0 2}$ | 1 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 7 3 6 0 0 6 9}$ | 1 |
| brown, glossy | $\mathbf{1 7 3 6 0 0 0 1}$ | 1 |
| light bronze, lacquered | $\mathbf{1 7 3 6} \mathbf{9 0 1 1}$ | 1 |
| stainless steel, | $\mathbf{1 7 3 6 9 0 0 4}$ | 1 | lacquered

Switching times 18 for on/off; Random generator +/- 15 min.; Astronomic time shift $+/-2$ hrs.; Power reserve approx. 24 hrs.; Countdown function 0-23 hrs. 59 min .

For manual and timer programmed switching of electrical loads.

For insert for timer order no. 2948

- with imprint in German
- with pre-set base programme
- 2 independent programme memories for everyday/ holidays
- with week and day programme
- with slide switch from summer to winter time
- astro programme for sunrise/sundown switching
- large-area display with symbols
- with slide switch for manual/automatic


I on page T7

## Timer with display and sensor connection

| white, glossy | $\mathbf{1 7 3 8 0 0 0 2}$ | 1 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 7 3 8 0 0 6 9}$ | 1 |
| brown, glossy | $\mathbf{1 7 3 8 0 0 0 1}$ | 1 |
| light bronze, lacquered | $\mathbf{1 7 3 8 \mathbf { 0 0 1 1 }}$ | 1 |
| stainless steel, | $\mathbf{1 7 3 8} \mathbf{9 0 0 4}$ | 1 | lacquered

Setting range twilight approx. 6-300 Lux;
Switching times 18 for on/off;
Random generator +/- 15 min.;
Astronomic time shift $+/-2$ hrs.;
Power reserve approx. 24 hrs.;
Countdown function 0-23 hrs. 59 min .
For manual and timer programmed switching of electrical loads.

For RolloTec brightness sensors order no. 0169, 0184 For insert for timer order no. 2948

- with imprint in German
- with pre-set base programme
- 2 independent programme memories for everyday/ holidays
- with week and day programme
- with slide switch from summer to winter time
- astro programme for sunrise/sundown switching
- large-area display with symbols
- with slide switch for manual/automatic
- for sensor connection to socket contact or terminal block
- connected RolloTec brightness sensor can be used for twilight-controlled switching-on

Order no.
Packing
unit
ROTARY DIMMERS


Centre plate with setting knob for rotary dimmer

| white, glossy | $\mathbf{1 1 3 5 0 0 0 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 1 3 5 0 0 \mathbf { 0 9 }}$ | 10 |
| brown, glossy | $\mathbf{1 1 3 5 0 0 0 1}$ | 10 |
| light bronze, metal | $\mathbf{1 1 3 4} \mathbf{0 0 0 1}$ | 10 |
| stainless steel | $\mathbf{1 1 3 4 0 0 0 4}$ | 10 |
| gold, metal | $\mathbf{1 1 3 4 0 0 0 2}$ | 10 |

Axial dimension diameter 4 mm
For rotary dimmer order no. 2819 .., 2830 10, 2860 10, 2875, 2885
For universal rotary dimmer order no. 286110
For universal rotary dimmer extension unit order no. 286210
For rotary dimmer LV order no. 2866 10, 2873
For Tronic rotary dimmer order no. 2867 10, 2874
For rotary potentiometer 1-10 V order no. 289110
For push-button rotary potentiometer 1-10 V order no. 289610
For rotary potentiometer DALI order no. 2897
For rotary potentiometer DALI with integrated power supply unit order no. 2898

SPEED CONTROLLERS
Centre plate with setting knob

for speed controller
polar white, glossy 1135008910
brown, glossy
light bronze, metal
stainless steel
gold, metal
11350021

- 10

11340021
1134002410
11340022
Axial dimension diameter 4 mm

For speed controller order no. 296801

■ with imprinted symbol curve

## UNIVERSAL SERIES TOUCH DIMMERS



Button for universal series touch dimmer
white, glossy 176500021
polar white, glossy 176500691
brown, glossy
17650001
17650011
17650004
17650012
I on page T12
Buttons


1 on page T12

## Radio buttons

Order no.
Packing
unit

## BLC BERKER LIGHT CONTROL

BLC button

| white, glossy | $\mathbf{1 7 6 1 0 0 0 2}$ | 1 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 7 6 1 \mathbf { 0 0 } \mathbf { 6 9 }}$ | 1 |
| brown, glossy | $\mathbf{1 7 6 1 \mathbf { 0 0 } \mathbf { 0 1 }}$ | 1 |
| light bronze, metal | $\mathbf{1 7 6 1 \mathbf { 0 0 1 1 }}$ | 1 |
| stainless steel | $\mathbf{1 7 6 1 \mathbf { 0 0 } \mathbf { 0 4 }}$ | 1 |
| gold, metal | $\mathbf{1 7 6 1 \mathbf { 0 0 } 1 2}$ | 1 |

For BLC universal touch dimmer order no. 2902
For BLC touch control unit 1-10 V order no. 2903
For BLC touch dimmer LV order no. 2904
For BLC triac switch insert LV order no. 2905
For BLC relay switch insert order no. 2906
For BLC relay switch insert with potential-free contact order no. 290610
For BLC extension unit order no 2907
For BLC relay switch insert HVAC order no. 2912
For BLC Tronic switch insert order no. 2916
For BLC stair light time switching impulse insert
order no. 293410
$\square$ with 2-push-buttons operation concept

- switch-on brightness for BLC dimmer insert mainsfailure protection storable
$■$ with BLC relay switch insert HVAC used as timer as well


## BLC radio button

| white, glossy | 17600002 |
| :---: | :---: |
| polar white, glossy | 17600069 |
| brown, glossy | 17600001 |
| light bronze, metal | 17600011 |
| stainless steel | 17600004 |
| gold, metal | 17600012 |

Learnable radio transmitters 30
Extension unit operation with BLC extension unit and push-button (NO) possible as of release R2.1.

For actuation via button and radio transmitter.
For BLC universal touch dimmer order no. 2902
For BLC touch control unit 1-10 V order no. 2903
For BLC touch dimmer LV order no. 2904
For BLC triac switch insert LV order no. 2905
For BLC relay switch insert order no. 2906
For BLC relay switch insert with potential-free contact order no. 290610
For BLC relay switch insert HVAC order no. 2912
For BLC Tronic switch insert order no. 2916

■ with 2-push-buttons operation concept

- with 5 light scenes for „on/off", dimming value
- retrieving light scenes only by using radio transmitter
■ radio signal of taught-in radio controller activates for 1 minute (subsequently triggered)
- switch-on brightness for BLC dimmer insert mainsfailure protection storable
- reset function (to factory setting)

Order no.
Packing
unit


I on page T15
BLC controller 1.1m

| white, glossy | $\mathbf{1 7 8 3 0 0 0 2}$ | 1 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 7 8 3 0 0 6 9}$ | 1 |
| brown, glossy | $\mathbf{1 7 8 3 0 0 0 1}$ | 1 |
| light bronze, lacquered | $\mathbf{1 7 8 3} \mathbf{9 0 1 1}$ | 1 |
| stainless steel, | $\mathbf{1 7 8 3} \mathbf{9 0} \mathbf{0 4}$ | 1 | stainless steel, $\quad 17839004$ lacquered

Nominal mounting height $1,1 \mathrm{~m}$;
Range frontal approx. 10 m ;
Range lateral each approx. 6 m ;
Detection field semi-oval shaped approx. $10 \times 12 \mathrm{~m}$;
Detection angle $180^{\circ}$;
Detection levels 2;
Switching segments 72;
Response sensitivity programmable
approx. 20 - $100 \%$;
Response brightness adjustable approx. 0-80/ unlimited Lux;
Delay time approx. 2 min.;
Operating temperature $-20-+45^{\circ} \mathrm{C}$;
Dimensions assembling height $23,5 \mathrm{~mm}$
Direct sunlight penetration the upward-pointing detection plane results in failure of the movement controller. Only suitable for interiors!

Switches on for the duration of the controller delay time in case minimum response brightness level is infringed and if movement of people is detected. In conjunction with a BLC relay switch unit HVAC, the HVAC-channel is also switched on for the duration of its delay time independent of response brightness.

For BLC universal touch dimmer order no. 2902 For BLC touch control unit 1-10 V order no. 2903
For BLC touch dimmer LV order no. 2904
For BLC triac switch insert LV order no. 2905
For BLC relay switch insert order no. 2906
For BLC relay switch insert with potential-free contact order no. 290610
For BLC controller extension unit order no. 2908
For BLC relay switch insert HVAC order no. 2912
For BLC Tronic switch insert order no. 2916
For BLC stair light time switching impulse insert order no. 293410

- activation by push-button opener in the cable
- with cover to limit detection angle to $90^{\circ}$

Order no.

## NEW



I on page T20

BLC controller 2.2m
white, glossy *17880002 1
polar white, glossy *17880069 1
light bronze, lacquered *17889011 1
stainless steel, *178800041
lacquered
Nominal mounting height $2,2(1,1) \mathrm{m}$;
Range frontal approx. 12 (6) m;
Range lateral each approx. 6 (3) m;
Detection field semi-oval shaped approx. $12 \times 12 \mathrm{~m}$;
Detection angle $180^{\circ}$
Detection levels 6;
Switching segments 268;
Response brightness (learnable) approx. 10 Ix ; Delay time approx. 2 min.;
Operating temperature $-15-+45^{\circ} \mathrm{C}$
As delivered and reset condition: response brightness 10 lx .

Switches on for the duration of the motion detector delay time in case minimum response brightness level is infringed and if movement of people is detected.
In conjunction with a BLC relay switch unit HVAC, the HVAC-channel is also switched on for the duration of its delay time independent of response brightness.
For BLC universal touch dimmer order no. 2902 For BLC touch control unit 1-10 V order no. 2903 For BLC touch dimmer LV order no. 2904
For BLC triac switch insert LV order no. 2905
For BLC relay switch insert order no. 2906
For BLC relay switch insert with potential-free contact order no. 290610
For BLC controller extension unit order no. 2908
For BLC relay switch insert HVAC order no. 2912
For BLC Tronic switch insert order no. 2916 For BLC stair light time switching impulse insert order no. 293410

- with crawl-under protection
- $\mu$-processor controlled operation (detection signal evaluation and interference signal suppression)
- glare-proof e.g. against a torch
- no switch-on in case of inadvertent brief shadowing
- with adaptive sensitivity adjustment

■ switch-on brightness for BLC dimmer insert with hand transmitter and BLC extension unit storable

- dimming insert switch-off advance warning (30 s dimming process)
- with teach function for response brightness
- activation by push-button opener in the cable

Order no.

| BLC controller 180 |  |
| :--- | :--- |
| white, glossy | \#1786 00 02 |
| polar white, glossy | \#1786 00 69 |
| brown, glossy | \#1786 00 01 |
| light bronze, lacquered | \#1786 9011 |
| stainless steel, \#1786 90 04 <br> lacquered  |  |

Nominal mounting height 2,2 m;
Range frontal approx. 12 m ;
Range lateral each approx. 6 m;
At assembly height 1,1 m;
Range frontal approx. 6 m ;
Range lateral each approx. 3 m ;
Detection field semi-oval shaped approx. $12 \times 12 \mathrm{~m}$; Detection angle $180^{\circ}$;
Detection levels 3;
Switching segments 104;
Response sensitivity programmable
approx. 20-100 \% ;
Response brightness adjustable approx. 0-80 /
unlimited Lux;
Delay time approx. 2 min.;
Operating temperature $-20-+45^{\circ} \mathrm{C}$;
Dimensions assembling height $23,5 \mathrm{~mm}$
Switches on for the duration of the controller delay time in case minimum response brightness level is infringed and if movement of people is detected. In conjunction with a BLC relay switch unit HVAC, the HVAC-channel is also switched on for the duration of its delay time independent of response brightness.

For BLC universal touch dimmer order no. 2902
For BLC touch control unit 1-10 V order no. 2903
For BLC touch dimmer LV order no. 2904
For BLC triac switch insert LV order no. 2905
For BLC relay switch insert order no. 2906
For BLC relay switch insert with potential-free contact order no. 290610
For BLC controller extension unit order no. 2908
For BLC relay switch insert HVAC order no. 2912
For BLC Tronic switch insert order no. 2916
For BLC stair light time switching impulse insert order no. 293410

■ activation by push-button opener in the cable
■ with cover to limit detection angle to $90^{\circ}$

Order no.


I on page T15

BLC controller comfort 1,1 m
white, glossy 17840002
polar white, glossy 178400691
brown, glossy 17840001
light bronze, lacquered 17849011
stainless steel, 17849004 lacquered

Nominal mounting height $1,1 \mathrm{~m}$;
Range frontal approx. 10 m ;
Range lateral each approx. 6 m ;
Detection field semi-oval shaped approx. $10 \times 12 \mathrm{~m}$;
Detection angle $180^{\circ}$;
Detection levels 2;
Switching segments 72;
Response sensitivity programmable
approx. 20-100 \% ;
Response brightness adjustable approx. 0-80 / unlimited Lux;
Delay time adjustable approx. 10 sec.- 30 min ; Time to dim down 30 sec.;
Step operation $0,5 \mathrm{sec}$.;
Immunity time approx. 3 sec .;
Operating temperature $-20-+45^{\circ} \mathrm{C}$;
Dimensions assembling height $23,5 \mathrm{~mm}$
Direct sunlight penetration the upward-pointing detection plane results in failure of the movement controller. Only suitable for interiors!

Switches on for the duration of the delay time set on the controller in case minimum response brightness level is infringed and if movement of people is detected.
In conjunction with a BLC relay switch unit HVAC, the HVAC-channel is also switched on for the duration of its delay time independent of response brightness.

For BLC universal touch dimmer order no. 2902
For BLC touch control unit 1-10 V order no. 2903
For BLC touch dimmer LV order no. 2904
For BLC triac switch insert LV order no. 2905
For BLC relay switch insert order no. 2906
For BLC relay switch insert with potential-free
contact order no. 290610
For BLC controller extension unit order no. 2908
For BLC relay switch insert HVAC order no. 2912
For BLC Tronic switch insert order no. 2916
For BLC stair light time switching impulse insert order no. 293410

- with slide switch for off/automatic/on

■ $\mu$-processor controlled operation (detection signal evaluation and interference signal suppression)
■ glare-proof e.g. against a torch

- no switch-on in case of inadvertent brief shadowing
$\square$ with adaptive sensitivity adjustment
■ with teach function for response brightness
■ step operation with immunity time (e.g. for bell)
■ switch-on brightness in conjunction with BLC dimmer inserts can only be saved via BLC extension unit
- with dimming function (soft-off) when using BLC dimmer inserts
- activation by push-button opener in the cable

■ with cover to limit detection angle to $90^{\circ}$

Order no.
Order no.

NEW


I on page $\mathbf{T} 20$

| BLC IR controller comfort 2,2 m |  |  |
| :---: | :---: | :---: |
| white, glossy | *178900 02 | 1 |
| polar white, glossy | *1789 0069 |  |
| light bronze, lacquered | *1789 9011 |  |
| stainless steel, lacquered | *1789 0004 |  |

Nominal mounting height $2,2(1,1) \mathrm{m}$;
Range frontal approx. 12 (6) m;
Range lateral each approx. 6 (3) m;
Detection field semi-oval shaped approx. $12 \times 12 \mathrm{~m}$;
Detection angle $180^{\circ}$;
Detection levels 6;
Switching segments 268;
Response sensitivity stages 25/50/75/100 \%;
Response brightness stages 1/10/150/250 Lux;
Delay time adjustable approx. 10 sec.- 60 min . ;
Step operation 0,3 sec.;
Limit shutdown after max. 90 min.;
Operating temperature $-15-+45^{\circ} \mathrm{C}$
Full range of functions only with hand transmitter for BLC IR controller. As-delivered and reset condition: Response sensitivity $100 \%$, time delay 30 s , night mode approx. 1 lx , additional functions OFF.

Switches on for the duration of the motion detector delay time in case minimum response brightness level is infringed and if movement of people is detected.
In conjunction with a BLC relay switch unit HVAC, the HVAC-channel is also switched on for the duration of its delay time independent of response brightness.

Adjustable with hand transmitter for BLC IR controller order no. 2770
For BLC universal touch dimmer order no. 2902
For BLC touch control unit 1-10 V order no. 2903
For BLC touch dimmer LV order no. 2904
For BLC triac switch insert LV order no. 2905
For BLC relay switch insert order no. 2906
For BLC relay switch insert with potential-free contact order no. 290610
For BLC controller extension unit order no. 2908
For BLC relay switch insert HVAC order no. 2912
For BLC Tronic switch insert order no. 2916
For BLC stair light time switching impulse insert order no. 293410

- with 2 buttons for permanent ON (LED green), permanent OFF (LED red) and automatic
with detection and IR receiver LED red, and IR confirmation LED green
- with sabotage protection by contact in cover and arcing contact
- $\mu$-processor controlled mode of operation
- glare-proof e.g. against a torch

■ no switch-on in case of inadvertent brief shadowing

- with adaptive sensitivity adjustment
- switch insert switch-off advance warning (3x alternately 0.2 s OFF/ 10 s ON) via remote control
$\square$ dimming insert switch-off advance warning (30 s dimming process)
- switch-on brightness for BLC dimmer insert with hand transmitter and BLC extension unit storable
$\square$ angle of detection limiter by means of sensor cutoff via remote control
- Short-time mode with immunity time (e.g. for bell) via remote control
- Hotel mode via remote control: without motion is dimmed to $20 \%$
■ test mode via remote control: response sensitivity $100 \%$, time delay 1 s and day mode
- Presence simulation via remote control: Retrieval of the switching operations from the last 7 days
- activation by push-button opener in the cable
- with teach function for response brightness


BLC controller 180 comfort with slide switch for off/automatic/on
white, glossy \#178700 02
polar white, glossy \#17870069 1
brown, glossy \#17870001 1
light bronze, lacquered \#17879011 1
stainless steel, \#17879004 1 lacquered

Nominal mounting height 2,2 m;
Range frontal approx. 12 m ;
Range lateral each approx. 6 m;
At assembly height 1,1 m;
Range frontal approx. 6 m ;
Range lateral each approx. 3 m;
Detection field semi-oval shaped approx. $12 \times 12 \mathrm{~m}$;
Detection angle $180^{\circ}$;
Detection levels 3;
Switching segments 104;
Response sensitivity programmable
approx. 20-100 \% ;
Response brightness adjustable approx. 0-80/ unlimited Lux;
Delay time adjustable approx. $10 \mathrm{sec} .-30 \mathrm{~min}$. ;
Time to dim down 30 sec.;
Step operation $0,5 \mathrm{sec}$.;
Immunity time approx. 3 sec.;
Operating temperature $-20-+45{ }^{\circ} \mathrm{C}$;
Dimensions assembling height $23,5 \mathrm{~mm}$
Switches on for the duration of the delay time set on the controller in case minimum response brightness level is infringed and if movement of people is detected.
In conjunction with a BLC relay switch unit HVAC, the HVAC-channel is also switched on for the duration of its delay time independent of response brightness.

For BLC universal touch dimmer order no. 2902
For BLC touch control unit 1-10 V order no. 2903
For BLC touch dimmer LV order no. 2904
For BLC triac switch insert LV order no. 2905
For BLC relay switch insert order no. 2906
For BLC relay switch insert with potential-free contact order no. 290610
For BLC controller extension unit order no. 2908
For BLC relay switch insert HVAC order no. 2912
For BLC Tronic switch insert order no. 2916
For BLC stair light time switching impulse insert order no. 293410

■ $\mu$-processor controlled operation (detection signal evaluation and interference signal suppression)
glare-proof e.g. against a torch

- no switch-on in case of inadvertent brief shadowing
- with adaptive sensitivity adjustment
- with teach function for response brightness

■ step operation with immunity time (e.g. for bell)

- switch-on brightness in conjunction with BLC dimmer inserts can only be saved via BLC extension unit
$\square$ with dimming function (soft-off) when using BLC dimmer inserts
■ activation by push-button opener in the cable
- with cover to limit detection angle to $90^{\circ}$

Order no.
Order no.
Packing
unit

## THERMOSTATS



I on page T34

| Room thermostat with NC contact, |  |
| :--- | :--- |
| centre plate, rocker switch and LED |  |
| white, glossy | 20300002 |
| polar white, glossy | 20300069 |
| brown, glossy | 20300001 |
| light bronze, lacquered | 20309011 |
| stainless steel, | 20309004 |

Rated voltage 250 V ;
Switching current 10 A ;
Inductive load at $\cos \varphi$ 0,6 max. 4 A;
Switching temperature difference approx. $0,5^{\circ} \mathrm{C}$; Night lowering approx. $4{ }^{\circ} \mathrm{C}$

Neutral conductor necessary!
If the pre-set temperature is reached the contact opens.

Replacement centre plate order no. 167100 .., 167190 ..
Suitable valve drive order no. 75900076

■ with imprint
■ setting knob with temperature range limitation

- with on/off switch and indicator LED for „on"
$\square$ with thermal return
$\square$ with separate connection for night lowering
■ e.g. for valve drives closed in de-energized state
■ without spreader claws
■ with plug-in terminals


I on page T34
Room thermostat 24 V with NC contact, centre plate, rocker switch and LED

| white, glossy | 20310002 | 1 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{2 0 3 1 0 0 6 9}$ | 1 |
| brown, glossy | $\mathbf{2 0 3 1 0 0 0 1}$ | 1 |
| light bronze, lacquered | $\mathbf{2 0 3 1 9 0 1 1}$ | 1 |
| stainless steel, | $\mathbf{2 0 3 1 9 0 0 4}$ | 1 |

lacquered
$5-30{ }^{\circ} \mathrm{C}, 50 / 60 \mathrm{~Hz}$
Rated voltage $24 \mathrm{~V} \sim$;
Switching current 10 A~;
Rated voltage $24 \mathrm{~V}=$;
Switching current $4 \mathrm{~A}=$;
Switching temperature difference approx. $0,5^{\circ} \mathrm{C}$;
Night lowering approx. $4{ }^{\circ} \mathrm{C}$
If the pre-set temperature is reached the contact opens.

Replacement centre plate order no. 167100 .., 167190 ..
Suitable valve drive order no. 75900077

■ with imprint
■ setting knob with temperature range limitation
■ with on/off switch and indicator LED for „on"
$\square$ with thermal return
$\square$ with separate connection for night lowering
■ e.g. for valve drives closed in de-energized state

- without spreader claws

■ with plug-in terminals


Centre plate with setting knob, rocker and lens for room thermostat with NC contact
white, glossy 167100021
polar white, glossy 167100691
brown, glossy 16710001
light bronze, lacquered 16719011
stainless steel, $\quad 16719004$ lacquered

Replacement demand for order no. 203000 .., 2030 90 .., 203100 .., 203190 ..

- with imprint

■ setting knob with temperature range limitation


I on page T34
Room thermostat with change-over and centre plate
white, glossy 202600021
polar white, glossy 202600691
brown glossy
20260001
20269011
$20269004 \quad 1$
light bronze, lacquered
tainless ste
lacquered
$5-30^{\circ} \mathrm{C}, 50 / 60 \mathrm{~Hz}$
Rated voltage $250 \mathrm{~V} \sim$;
Switching current „heating" 10 A ;
Switching current "heating" at $\cos \varphi 0.64 \mathrm{~A}$;
Switching current „cooling" 5 A;
Switching current "cooling" at $\cos \varphi 0.62 \mathrm{~A}$;
Switching temperature difference approx. $0,5^{\circ} \mathrm{C}$
Neutral conductor necessary!
If the pre-set temperature is reached the contact changes.

Replacement centre plate order no. 167000 .., 167090 ..
Suitable valve drive order no. 75900076

- with imprint

■ setting knob with temperature range limitation

- for heating or cooling mode

■ e.g. for valve drives closed in de-energized state
■ with thermal return
■ without spreader claws
■ with plug-in terminals


Centre plate with setting knob for room thermostat with change-over contact white, glossy 16700002 polar white, glossy $\quad 16700069$ brown, glossy

16700001
light bronze, lacquered
16709011
stainless steel, 16709004
lacquered

Replacement demand for order no. 202600 .., 202690 ..

- with imprint
$\square$ setting knob with temperature range limitation

Order no.
unit


I on page T34
Floor thermostat with NO contact, centre plate, rocker switch, 2 LEDs and floor temperature sensor

| white, glossy | $203400 \mathbf{0 2}$ | 1 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{2 0 3 4 0 0 6 9}$ | 1 |
| brown, glossy | $\mathbf{2 0 3 4 0 0 0 1}$ | 1 |
| light bronze, lacquered | $\mathbf{2 0 3 4 9 0 1 1}$ | 1 |
| stainless steel, | $\mathbf{2 0 3 4 9 0 0 4}$ | 1 | lacquered

$10-50{ }^{\circ} \mathrm{C}, 50 / 60 \mathrm{~Hz}$
Rated voltage $250 \mathrm{~V} \sim$;
Switching current 10 A;
Switching temperature difference approx. $1^{\circ} \mathrm{C}$;
Night lowering approx. $5{ }^{\circ} \mathrm{C}$;
Sensor cable length 4 m
Neutral conductor necessary!

If the temperature falls under the pre-set value the contact closes.

Replacement floor temperature sensor / remote sensor order no. 0161
Replacement centre plate order no. 167200 ..,
167290 ..
Suitable valve drive order no. 75900076
$\square$ with imprint

- setting knob with temperature range limitation
- with on/off switch and 2 LEDs
- with LED for heating and LED for night lowering
- with separate connection for night lowering
$\square$ e.g. for valve drives closed in de-energized state
- without spreader claws
- with plug-in terminals


Centre plate with setting knob, rocker and lenses for floor temperature thermostat
white, glossy
polar white, glossy
16720002
$16720069 \quad 1$
brown, glossy
$16720001 \quad 1$
light bronze, lacquered
16729011
16729004
lacquered

Replacement demand for order no. 203400 .., 203490 ..
$\square$ with imprint
$\square$ setting knob with temperature range limitation

## Sensor insert

## Central plate for sensor insert

| white, glossy | $\mathbf{7 5 9 4 0 4 0 2}$ | 1 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{7 5 9 4 0 4 0 9}$ | 1 |
| light bronze, lacquered | $\mathbf{7 5 9 4 0 4 0 4}$ | 1 |
| stainless steel, | $\mathbf{7 5 9 4 0 4 0 3}$ | 1 |
| lacquered |  |  |
| polar white, matt/velvety | $\mathbf{7 5 9 4 0 4 8 9}$ | 1 |
| anthracite, matt | $\mathbf{7 5 9 4 0 4 8 5}$ | 1 |
| aluminium, matt | $\mathbf{7 5 9 4 0 4 8 3}$ | 1 |

Attention!
Use only with intermediate ring for central plate from the corresponding range.
Labelling field not usable.
Sensor insert order no. 75941001
$\square$ with slots for air circulation

- for e.g. temperature sensor PT100

Order no.

ROLLOTEC
Comfort buttons


RolloTec button comfort

| white, glossy | $\mathbf{1 7 7 0} \mathbf{0 0 1 2}$ | 1 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 7 7 0 \mathbf { 0 0 } \mathbf { 7 9 }}$ | 1 |
| brown, glossy | $\mathbf{1 7 7 0 \mathbf { 0 0 1 1 }}$ | 1 |
| light bronze, metal | $\mathbf{1 7 7 0 \mathbf { 9 0 } \mathbf { 2 1 }}$ | 1 |
| stainless steel | $\mathbf{1 7 7 0} \mathbf{9 0} \mathbf{1 4}$ | 1 |
| gold, metal | $\mathbf{1 7 7 0} \mathbf{9 0} \mathbf{1 2}$ | 1 |

Learnable running time $0,5 \mathrm{sec} .-2 \mathrm{~min}$.;
Lamella adjustment with signal < 1 sec .;
Locked for 2 min . upon actuation 1-4 Sec.

For RolloTec standard insert without neutral conductor connection order no. 2911
For RolloTec standard insert order no. 2925
For Rollotec comfort insert order no. 2975
For RolloTec comfort insert for direct current drives order no. 297501

■ with imprinted symbol arrows
■ with lock-out protection e.g. for shutter control terrace door

- Activation of the anti-lockout device in the upper end position by touching in the UP direction for
$\square$ with indicator LED for lock-out protection



## RolloTec button comfort

with sensor connection

| white, glossy | $\mathbf{1 7 7 1 0 0 1 2}$ | 1 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 7 7 1 0 0 7 9}$ | 1 |
| brown, glossy | $\mathbf{1 7 7 1 0 0 1 1}$ | 1 |
| light bronze, metal | $\mathbf{1 7 7 1 9 0 1 1}$ | 1 |
| stainless steel | $\mathbf{1 7 7 1 9 0 1 4}$ | 1 |
| gold, metal | $\mathbf{1 7 7 1 9 0 1 2}$ | 1 |

Brightness value sun approx. 5-80 kLux;
Learnable running time $0,5 \mathrm{sec} .-2 \mathrm{~min}$.;
Lamella adjustment with signal < 1 sec .;
Locked for 2 min . upon actuation 1-4 Sec.

For RolloTec brightness sensors order no. 0169, 0184
For RolloTec glass breakage sensor order no. 0170
For RolloTec adapter for sensors order no. 0171
For RolloTec standard insert without neutral conductor connection order no. 2911
For RolloTec standard insert order no. 2925
For Rollotec comfort insert order no. 2975
For RolloTec comfort insert for direct current drives order no. 297501
For magnetic contact order no. 9251 ..

■ with lock-out protection e.g. for shutter control terrace door

- Activation of the anti-lockout device in the upper end position by touching in the UP direction for
- with indicator LED for lock-out protection
- brightnesses individually adjustable
- on brightness sensor surface-mounted, the taught-in running time for sun protection movement is used
- no twilight sensor function

■ only for sensor connection to terminal block


Order no.
Packing
unit

|  | RolloTec memory button with sensor connection |  |  |
| :---: | :---: | :---: | :---: |
|  | white, glossy | 17570012 | 1 |
|  | polar white, glossy | 17570079 | 1 |
|  | brown, glossy | 17570011 | 1 |
|  | light bronze, metal | 17579021 | 1 |
| 1 on page T37 | stainless steel | 17579014 | 1 |
|  | gold, metal | 17579012 | 1 |

Brightness value sun approx. 20 kLux;
Lamella adjustment with signal < 1 sec.;
Self-sustaining for 2 min . with signal $>1 \mathrm{sec}$.;
Storage of "up/down" time with signal $>3,5 \mathrm{sec}$.
Stored „up" and/or "down" time is run daily in automatic operation.

For manual and timer programmed running of awnings, shutters and blinds.

For RolloTec brightness sensors order no. 0169, 0184
For RolloTec glass breakage sensor order no. 0170
For RolloTec adapter for sensors order no. 0171 For RolloTec standard insert without neutral conductor connection order no. 2911
For RolloTec standard insert order no. 2925
For Rollotec comfort insert order no. 2975
For RolloTec comfort insert for direct current drives order no. 297501
For magnetic contact order no. 9251 .

■ no twilight sensor function
■ only for sensor connection to terminal block
Memory buttons

| RolloTec memory button |  |  |
| :--- | :---: | :--- |
| white, glossy | $\mathbf{1 7 5 6} \mathbf{0 0 \mathbf { 1 2 }}$ | 1 |
| polar white, glossy | $\mathbf{1 7 5 6 \mathbf { 0 0 } \mathbf { 7 9 }}$ | 1 |
| brown, glossy | $\mathbf{1 7 5 6 \mathbf { 0 0 1 1 }}$ | 1 |
| light bronze, metal | $\mathbf{1 7 5 6 \mathbf { 9 0 } \mathbf { 2 1 }}$ | 1 |
| stainless steel | $\mathbf{1 7 5 6} \mathbf{9 0 \mathbf { 1 4 }}$ | 1 |
| gold, metal | $\mathbf{1 7 5 6 \mathbf { 9 0 } \mathbf { 1 2 }}$ | 1 |

Lamella adjustment with signal < 1 sec.;
Self-sustaining for 2 min . with signal $>1 \mathrm{sec}$.;
Storage of "up/down" time with signal $>3,5$ sec.
Stored „up" and/or „down" time is run daily in automatic operation.

For manual and timer programmed running of awnings, shutters and blinds.

For RolloTec standard insert without neutral conductor connection order no. 2911
For RolloTec standard insert order no. 2925
For Rollotec comfort insert order no. 2975
For RolloTec comfort insert for direct current drives order no. 297501

Order no.
Packing
unit

## Timer switches



I on page T37
RolloTec easy timer with display
white, glossy 176200021
polar white, glossy $17620069 \quad 1$
brown, glossy
17620001
17629011
17629004
stainless steel, lacquered
Operation times 2 up/down;
Power reserve approx. 6 hrs., maintenance-free; Lamella adjustment with signal < 1 sec .; Self-sustaining for 2 min . with signal $>1 \mathrm{sec}$.

No extension units and sensor signals or central commands will be processed.

For manual and timer programmed running of awnings, shutters and blinds.
For RolloTec standard insert without neutral conductor connection order no. 2911
For RolloTec standard insert order no. 2925
For Rollotec comfort insert order no. 2975
For RolloTec comfort insert for direct current drives order no. 297501

■ with imprint in German

- with pre-set base programme

■ simple programming of operation times

- with quick programming mode

■ programming possible for up to 6 h after removing insert

- 2 programme blocks Mon. - Fri. and Sat. - Sun.
- large-area display
- with slide switch for manual/automatic


I on page T37

## RolloTec timer comfort with display

| white, glossy | $\mathbf{1 7 7 4 0 0 0 2}$ | 1 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 7 7 4 0 0 6 9}$ | 1 |
| brown, glossy | $\mathbf{1 7 7 4 0 0 0 1}$ | 1 |
| light bronze, lacquered | $\mathbf{1 7 7 4 9 0 1 1}$ | 1 |
| stainless steel, | $\mathbf{1 7 7 4 9 0 0 4}$ | 1 |

lacquered
Operation times 18 up/down;
Random generator +/- 15 min .;
Power reserve approx. 3 hrs., maintenance-free;
Astronomic time shift +/- 2 hrs.;
Learnable down time 1 sec.- 6 min.;
Lamella adjusting time $0-5 \mathrm{sec}$.;
Lamella adjustment with signal < 1 sec .; Lock at touching > 1 sec .
For manual and timer programmed running of awnings, shutters and blinds.
For RolloTec standard insert without neutral conductor connection order no. 2911
For RolloTec standard insert order no. 2925
For Rollotec comfort insert order no. 2975
For RolloTec comfort insert for direct current drives order no. 297501

- with German display text
- with totally 3 independent programme memories
- 2 programme memories pre-set
$\square$ programming according to week and days possible
- programme memory network failure proved
- with automatic summer-/winter time switching (can be switched off)
- astro programme for sunrise/sundown running
- large-area display with symbols
- indication of the next operation schedule under consideration of astro and coincidence function
■ with slide switch for manual/automatic
- lock out protection because evaluation of the centre or extension unit commands can be switched off
■ lamella position programmable at down operation times


1 on page T37
RolloTec timer comfort with display and sensor connection

| white, glossy | $\mathbf{1 7 7 5 0 0 0 2}$ | 1 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 7 7 5 0 0 6 9}$ | 1 |
| brown, glossy | $\mathbf{1 7 7 5 0 0 0 1}$ | 1 |
| light bronze, lacquered | $\mathbf{1 7 7 5 9 0 1 1}$ | 1 |
| stainless steel, | $\mathbf{1 7 7 5 9 0 0 4}$ | 1 |

stainless steel
17759004
lacquered
Setting range sun approx. 1-76 kLux;
Setting range twilight approx. 6-300 Lux;
Operation times 18 up/down;
Random generator +/- 15 min.;
Power reserve approx. 3 hrs ., maintenance-free;
Astronomic time shift +/- 2 hrs.;
Learnable down time $1 \mathrm{sec} .-6 \mathrm{~min}$.
Lamella adjusting time 0-5 sec.;
Lamella adjustment with signal < 1 sec.;
Lock at touching > 1 sec.
For manual and timer programmed running of awnings, shutters and blinds.

For RolloTec brightness sensors order no. 0169, 0184
For RolloTec glass breakage sensor order no. 0170
For RolloTec adapter for sensors order no. 0171
For RolloTec standard insert without neutral conductor connection order no. 2911
For RolloTec standard insert order no. 2925
For Rollotec comfort insert order no. 2975
For RolloTec comfort insert for direct current drives order no. 297501
For magnetic contact order no. 9251 ..

- with German display text
with totally 3 independent programme memories
- 2 programme memories pre-set
$\square$ programming according to week and days possible
- programme memory network failure proved
- with automatic summer-/winter time switching (can be switched off)
$\square$ astro programme for sunrise/sundown running
- large-area display with symbols

■ indication of the next operation schedule under consideration of astro and coincidence function

- with slide switch for manual/automatic

■ lock out protection because evaluation of the centre or extension unit commands can be switched off

- lamella position programmable at down operation times
■ with surface-mounted RolloTec brightness sensor additionally settable with shutter and lamella pos.
- connected RolloTec brightness sensor can be used for twilight-controlled lowering
- con.surface-mounted RolloTec brightness sensor suitable for twilight-controlled raising and lowering
$\square$ for the sensor connection on the clamping block in the insert


Order no.


## Docking station

polar white, glossy *28830069 1
stainless steel, *28830004 1 lacquered

230 V~, 50/60 Hz
Installation depth 36 mm
Similar to illustration.
For Radio Touch order no. 2880 .
For Radio Touch IP order no. 2881 ..
For speaker order no. 2882 ..
CE

- with 30pole plug connector for iPod and iPhone*
- buttons for volume control
$\square$ battery charging function for iPod and iPhone*
- AUX input mini stereo jack for audio source (line or headphones output), e.g. MP3 player
- stereo Line-Out for connection to the radio touch
- with screw terminals
* iPod and iPhone are registered trademarks of Apple Inc.


## TV/AUDIONIDEO

## Multimedia outlets



I on page T65
$3 \times$ Cinch/S-Video socket

| white, glossy | *33 15320002 | 10 |
| :--- | :--- | :--- |
| polar white, glossy | *33 15320069 | 10 |
| light bronze, lacquered | *33 1532 90 11 | 10 |
| stainless steel, | *331532 9004 | 10 |

lacquered
Frequency range audio $20 \mathrm{~Hz}-20 \mathrm{KHz}$;
Frequency range video max. 160 MHz
Especially suitable for connecting typical analogue audio and video devices such as receivers, hi-fi systems and DVD players.

Installation recommendation:
Company name Kaiser: „Electronic-Dose" for compliance with the permissible bending radii, Art.-No. 1068-02 or 9062-74
Company name Fränkische: „Multimedia-Rohr" for laying pre-assembled connection cable, Art.-No. 294.10.092

- gold-plated contacts
- without spreader claws

■ 2 cinch double jacks for audio connection (red, white)

- 1 cinch double jack for video connection (yellow)

■ S-Video double jack

Order no.


I on page T65
Frequency range video max. 160 MHz ;
Resolution max. $1280 \times 1024 \mathrm{px}$
Especially suitable for connecting PCs, notebooks, etc. with display devices such as monitors (including LCD monitors) and projectors.

Installation recommendation:
Company name Kaiser: „Electronic-Dose" for compliance with the permissible bending radii, Art.-No. 1068-02 or 9062-74
Company name Fränkische: „Multimedia-Rohr" for laying pre-assembled connection cable, Art.-No. 294.10.092

Please notice the maximum cable length of the cableand devices manufacturer.

- S-VGA compatible
- without spreader claws

■ with 15pole D-subminiature double jack


1) on page T65

| VGA socket with screw-in lift terminals |  |  |
| :---: | :---: | :---: |
| white, glossy | * 3315410002 | 10 |
| polar white, glossy | * 3315410069 | 10 |
| light bronze, lacquered | *3315419011 | 10 |
| stainless steel, lacquered | *3315419004 | 10 |

Frequency range video max. 160 MHz ;
Resolution max. $1280 \times 1024$ px;
Conductor cross-section max. $1,5 \mathrm{~mm}^{2}$
Especially suitable for connecting PCs, notebooks, etc. with display devices such as monitors (including LCD monitors) and projectors.

Installation recommendation:
Company name Kaiser: „Electronic-Dose" for compliance with the permissible bending radii, Art.-No. 1068-02 or 9062-74
Company name Fränkische: „Multimedia-Rohr" for laying pre-assembled connection cable, Art.-No. 294.10.092

Please notice the maximum cable length of the cableand devices manufacturer.

■ S-VGA compatible
■ without spreader claws
■ with 15pole D-subminiature jack (front)
■ with screw-in lift terminals for connection to 15-core VGA cable

Order no.

## Packing unit unit

| USB/3.5 mm audio socket outlet |  |  |
| :---: | :---: | :---: |
| white, glossy | *331539 0002 | 10 |
| polar white, glossy | *331539 0069 | 10 |
| light bronze, lacquered | *331539 9011 | 10 |
| stainless steel, | *33153990 04 | 10 |

Frequency range audio $20 \mathrm{~Hz}-20 \mathrm{KHz}$; Transmission rate (USB) max. $480 \mathrm{MBit} / \mathrm{s}$

Especially suitable for connecting mobile devices, such as mobile phones or MP3 players (mini audio), digital cameras and computer peripherals (USB 2.0).

Installation recommendation
Company name Kaiser: „Electronic-Dose" for compliance with the permissible bending radii, Art.-No. 1068-02 or 9062-74
Company name Fränkische: „Multimedia-Rohr" for laying pre-assembled connection cable, Art.-No. 294.10.092

Please notice the maximum cable length of the cableand devices manufacturer.
without spreader claws
■ USB double jack type A, USB 2.0 capable
■ double jack gold-plated 3.5 mm , stereo


| High definition socket outlet |  |
| :---: | :---: |
| white, glossy | *3315420002 |
| polar white, glossy | *3315420069 |
| light bronze, lacquered | *3315429011 |
| stainless steel, lacquered | *3315429004 |

Video bandwidth max. 165 MHz;
Resolution max. 1080p ( $1920 \times 1080 \mathrm{px}$ );
Frequency range (vertical) $50-85 \mathrm{~Hz}$;
Transmission rate max. $8,16 \mathrm{GBit} / \mathrm{s}$
Especially suitable for connecting digital high-end entertainment electronics devices for transmission of high-resolution audio and video signals, such as satellite receivers and DVD players, to LCD or plasma screens.

Installation recommendation:
Company name Kaiser: „Electronic-Dose" for compliance with the permissible bending radii, Art.-No. 1068-02 or 9062-74
Company name Fränkische: „Multimedia-Rohr" for laying pre-assembled connection cable, Art.-No. 294.10.092

Please notice the maximum cable length of the cableand devices manufacturer.

- gold-plated contacts
- without spreader claws

■ with $\mathrm{HDMI}^{\top \mathrm{M}}$ double jack type A , supports $\mathrm{HDMI}^{\top \mathrm{TM}}$ technology (V 1.3 with Deep Color)

Order no.
Packing
unit

| NEW - | High definition socket with $90^{\circ}$ plug connection |  |  |
| :---: | :---: | :---: | :---: |
|  | white, glossy | *33154300 02 | 10 |
|  | polar white, glossy | *3315430069 | 10 |
|  | light bronze, lacquered | * 3315439011 | 10 |
| I on page T65 | stainless steel, lacquered | *33154390 04 | 10 |
|  | Video bandwidth max <br> Resolution max. 108 <br> Frequency range (ve <br> Transmission rate m | 165 MHz ; ( $1920 \times 1080 \mathrm{px}$ ) ical) $50-85 \mathrm{~Hz}$; x. $8,16 \mathrm{GBit} / \mathrm{s}$ |  |
|  | Especially suitable for entertainment electron of high-resolution audi as satellite receivers plasma screens. | connecting digital ics devices for tran o and video signals, nd DVD players, to |  |
|  | Installation recomme Company name Kais compliance with the Art.-No. 1068-02 or Company name Frän for laying pre-assemb Art.-No. 294.10.092 | dation: <br> r: „Electronic-Dose ermissible bending 62-74 <br> ische: „Multimediaed connection cab |  |
|  | Please notice the maximum cable length of the cableand devices manufacturer. |  |  |
|  | gold-plated contacts <br> - jack on rear, angled $90^{\circ}$ <br> without spreader claws <br> with HDMITM $^{\text {M }}$ double jack type A, supports HDMI ${ }^{\text {TM }}$ technology (V 1.3 with Deep Color) |  |  |

## Audio outlets



| Central plate for XLR round connectors <br> D series |  |  |
| :--- | :--- | :--- |
| white, glossy | $\mathbf{1 4 1 2 ~ 0 2}$ |  |
| polar white, glossy | $\mathbf{1 4 1 2 ~ 0 9}$ | 10 |
| polar white, matt/velvety | $\mathbf{1 4 1 2} \mathbf{1 9 0 9}$ | 10 |
| anthracite, matt | $\mathbf{1 4 1 2} \mathbf{1 6 0 6}$ | 10 |
| aluminium, matt | $\mathbf{1 4 1 2 ~ \mathbf { 1 4 ~ 0 4 }}$ | 10 |

Cut-out diameter $23,6 \mathrm{~mm}$;
Distance between screws (horizontal/vertical)
19 / 24 mm
For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.

Attention!
Use only with intermediate ring for central plate from the corresponding range.

Circular plug-in connector:
Cannon;
Deltron;
Farnell;
Hirose;
Monacor;
Neutrik;
RS Components

- with supporting plate
- speakon and jack connector
- without spreader claws

Order no.
Order no.


Centre plate for loudspeaker socket outlet and miniature connector insert with labelling field
white, glossy, 1gang, 11185000210
knock out opening
polar white, glossy,
11850069
1gang, 1 knock out opening
brown, glossy, 1gang, $1 \quad 11850001$
10
knock out opening
Labelling field height arranged for 6 mm P-touch strips.
For miniature connector insert order no. 4505
For stereo loudspeaker socket outlet order no. 450501
For loudspeaker socket outlet High End order no. 450502
For BNC/TNC connector insert order no. 4577, 4579


Centre plate for loudspeaker socket outlet and miniature connector insert
light bronze, metal, 11840001
1gang, 1 knock out
opening
stainless steel, 1gang, $1 \quad 1184000410$
knock out opening
gold, metal, 1gang,
11840002
10
knock out opening

For miniature connector insert order no. 4505
For stereo loudspeaker socket outlet order no. 450501
For loudspeaker socket outlet High End order no. 450502
For BNC/TNC connector insert order no. 4577, 4579


| Centre plate for aerial socket 1-hole |  |  |
| :--- | :---: | :---: |
| white, glossy | $\mathbf{1 4 9 9 0 0 0 2}$ | 10 |
| polar white, glossy | $\mathbf{1 4 9 9 0 0 6 9}$ | 10 |
| light bronze, metal | $\mathbf{1 4 9 9 0 1 0 1}$ | 10 |
| stainless steel | $\mathbf{1 4 9 9 0 0 0 4}$ | 10 |



| Centre plate for aerial socket 2- and 3-hole |  |  |
| :--- | :---: | ---: |
| white, glossy | $\mathbf{1 2 0 1 0 1 0 2}$ | 10 |
| polar white, glossy | $\mathbf{1 2 0 1 0 1 6 9}$ | 10 |
| brown, glossy | $\mathbf{1 2 0 1 0 1 0 1}$ | 10 |
| light bronze, metal | $\mathbf{1 2 0 2 0 0 0 1}$ | 10 |
| stainless steel | $\mathbf{1 2 0 2 0 0 0 4}$ | 10 |
| gold, metal | $\mathbf{1 2 0 2 0 0 0 2}$ | 10 |

For aerial socket 2-hole single box order no. 4502 For aerial socket 2-hole throughpass socket order no. 4515
For aerial socket 3-hole single box order no. 4522 For aerial socket 3-hole throughpass socket order no. 4523, 4593

■ with knock out SAT input


For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.

## Attention

Use only with intermediate ring for central plate from the corresponding range.
For aerial socket 4-hole single box order no. 4594

Aerial sockets:
Ankaro;
Astro;
Axing;
Delta;
Schwaiger
$\square$ with 2 additional SAT outputs (F-sockets)


Central plate for aerial socket 4-hole

| white, glossy | $\mathbf{1 4 8 3 0 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 4 8 3 0 9}$ | 10 |
| brown | $\mathbf{1 4 8 3 0 1}$ | 10 |
| light bronze, lacquered | $\mathbf{1 4 8 3} \mathbf{1 1}$ | 10 |
| stainless steel, | $\mathbf{1 4 8 3 0 4}$ | 10 |
| lacquered |  |  |
| polar white, matt/velvety | $\mathbf{1 4 8 3} \mathbf{1 9 0 9}$ | 10 |
| anthracite, matt | $\mathbf{1 4 8 3} \mathbf{1 6 0 6}$ | 10 |
| aluminium, matt | $\mathbf{1 4 8 3 \mathbf { 1 4 0 4 }}$ | $\mathbf{1 0}$ |

Attention!
Use only with intermediate ring for central plate from the corresponding range.

Aerial sockets:
Hirschmann
■ with 2 additional SAT outputs (F-sockets)
Central plate for broadband modem box

| white, glossy | $\mathbf{1 4 3 9 \mathbf { 0 2 }}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 4 3 9 0 9}$ | 10 |
| polar white, matt/velvety | $\mathbf{1 4 3 9 \mathbf { 1 9 0 9 }}$ | 10 |
| anthracite, matt | $\mathbf{1 4 3 9 \mathbf { 1 6 0 6 }}$ | 10 |
| aluminium, matt | $\mathbf{1 4 3 9 \mathbf { 1 4 0 4 }}$ | 10 |

## Attention!

Use only with intermediate ring for central plate from the corresponding range.

Broadband modem socket:
Wisi
■ with additional multimedia output

Order no.
Order no.
Packing
unit

## INTERMEDIATE RINGS



Hinged cover with labelling field, flat design
white, glossy 1140000210 polar white, glossy 11400069 brown, glossy 11400001 stainless steel, 11409004 10 lacquered light bronze, lacquered $1140 \mathbf{9 0} 110$

To be used for push-buttons with hinged cover, for example.

Labelling field height arranged for 6 mm P-touch strips.

For post-installation clipping into centre plates with labelling field.

- with imprint


Hinged cover with labelling field, high design white, glossy 11410002 polar white, glossy $11410069 \quad 10$ brown, glossy 1141000110 stainless steel, $\quad 11419004$ lacquered light bronze, lacquered 1141901110

Labelling field height arranged for 6 mm P-touch strips.

For post-installation clipping into centre plates with labelling field.

- with imprint


| Adapter ring for centre plate $\mathbf{5 0 \times 5 0} \mathbf{~ 5 m}$ |  |  |
| :--- | :---: | :--- |
| white, glossy | $\mathbf{1 1 0 8 0 1 0 2}$ | 10 |
| polar white, glossy | $\mathbf{1 1 0 8 0 1 6 9}$ | 10 |
| brown, glossy | $\mathbf{1 1 0 8 0 1 0 1}$ | 10 |
| light bronze, lacquered | $\mathbf{1 1 0 8 9 1 1 1}$ | 10 |
| stainless steel, | $\mathbf{1 1 0 8 9 1 0 4}$ | 10 |
| lacquered |  |  |

Attention!
Not suitable for Berker central plates.
For centre plate as per DIN 49075

- for other centre plates with external size $50 \times 50 \mathrm{~mm}$

| Intermediate ring for central plate |  |  |
| :---: | :---: | :---: |
| white, glossy | 11080002 | 10 |
| polar white, glossy | 11080069 | 10 |
| brown, glossy | 11080001 | 10 |
| light bronze, lacquered | 11089011 | 10 |
| stainless steel, lacquered | 11089004 | 10 |


|  | Intermediate ring with hinged cover and labelling field flat execution |  |  |
| :---: | :---: | :---: | :---: |
| $a$ | white, glossy | 11550002 | 10 |
|  | polar white, glossy | 11550069 | 10 |
|  | brown, glossy | 11550001 | 10 |
|  | light bronze, metal | 11551001 | 10 |
|  | stainless steel | 11551004 | 10 |
|  | gold, metal | 11551002 | 10 |
|  | Labelling field height arranged for 6 mm P-touch strips. |  |  |
|  | - with imprint |  |  |
| の | Intermediate ring with hinged cover and labelling field dome execution |  |  |
|  | white, glossy polar white, glossy | $\begin{aligned} & 11550102 \\ & 11550169 \end{aligned}$ | 10 10 |
|  | brown, glossy | 11550101 | 10 |
|  | light bronze, lacquered | 11559111 | 10 |
|  | stainless steel, lacquered | 11559104 | 10 |
|  | Labelling field height a strips. | ranged for 6 |  |
|  | - with imprint with cable outlet |  |  |
| DATA COMMUNICATIONS/TELECOMMUNICATIONS |  |  |  |
| - | Centre plate for cable outlet and VDo connection box |  |  |
|  | white, glossy | 10050002 | 10 |
|  | polar white, glossy | 10050069 | 10 |
|  | brown, glossy | 10050001 | 10 |
|  | light bronze, lacquered | 10049011 | 10 |
|  | stainless steel, lacquered | 10049004 | 10 |
|  | For cable outlet order no. 4468, 4470 |  |  |
|  | VDo connector boxes: |  |  |
|  | Komos; |  |  |
|  | Rutenbeck; |  |  |
|  | Telena |  |  |
|  | - with an outlet below |  |  |

Order no.
Packing
unit
Centre plate for TAE socket outlet and loudspeaker connection box

| white, glossy | $\mathbf{1 0 3 5 0 1 0 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 0 3 5 0 1 6 9}$ | 10 |
| brown, glossy | $\mathbf{1 0 3 5 0 1 0 1}$ | 10 |
| light bronze, metal | $\mathbf{1 0 3 4 0 0 0 1}$ | 10 |
| stainless steel | $\mathbf{1 0 3 4 0 0 0 4}$ | 10 |
| gold, metal | $\mathbf{1 0 3 4 0 0 0 2}$ | 10 |

For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.
For USB charging socket 230 V order no. 26000.
For loudspeaker connection box order no. 4572 .., 4573 ..
For USB data interface flush-mounted order no. 75040004

EAD socket outlets:
Drivex; Fröhlich + Walter; Intracom;
TAE and FCC overvoltage protection sockets:
Dehn;
FCC socket outlets:
Dätwyler; Rutenbeck


Centre plate for PTT socket outlet "Netherlands"

| white, glossy | $\mathbf{6 1 1 0 2 6 0 0 0 2}$ | 10 |
| :--- | :--- | ---: |
| polar white, glossy | $\mathbf{6 1 1 0 2 6 0 0 6 9}$ | 100 |
| brown, glossy | $\mathbf{6 1 1 0 2 6 0 0 0 1}$ | 10 |
| light bronze, lacquered | $\mathbf{6 1 1 0 2 6 \mathbf { 9 0 1 1 }}$ | 10 |
| stainless steel, | $\mathbf{6 1 1 0 2 6 \mathbf { 9 0 ~ 0 4 }}$ | 10 |
| lacquered |  |  |

lacquered

■ universal for standard commercially available PTT socket outlets


## Centre plate for RTT socket outlet „Belgium"

| white, glossy | $\mathbf{6 7 1 0 2 5 0 0 0 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{6 7 1 0 2 5 0 0 6 9}$ | 10 |
| light bronze, lacquered | $\mathbf{6 7 1 0 2 5} \mathbf{9 0 1 1}$ | 10 |
| stainless steel, | $\mathbf{6 7 1 0 2 5 9 0 0 4}$ | 10 | 671025900410

lacquered

Order no.
Packing
Order no.
Packing
unit


| Central plate for 3 MINI-COM modules |  |  |
| :--- | :--- | :--- |
| white, glossy | $\mathbf{1 4 2 7} \mathbf{0 2}$ | 10 |
| polar white, glossy | $\mathbf{1 4 2 7} \mathbf{0 9}$ | 10 |
| polar white, matt/velvety | $\mathbf{1 4 2 7} \mathbf{1 9 0 9}$ | 10 |
| anthracite, matt | $\mathbf{1 4 2 7} \mathbf{1 6 0 6}$ | 10 |
| aluminium, matt | $\mathbf{1 4 2 7} \mathbf{1 4 0 4}$ | 10 |

For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.

Attention!
Use only with intermediate ring for central plate from the corresponding range.
For mini jack order no. 1980, 1984, 1985
For cinch module set order no. 1989
For blank module order no. 1990
For video cinch module order no. 1992
For S-Video module order no. 1993
For VGA module order no. 1994
Modules:
Panduit

- with supporting plate

■ for Mini-Com jacks cat.3, cat.5e, cat.6, cat. 6 10Gig

- for Mini-Com fibre-optic modules

■ for Mini-Com BNC connector modules

- for Mini-Com 3.5 mm stereo connection/coupling modules
- for mini-com speaker wire/banana plug modules
- for Mini-Com F-plug coupling modules
- for Mini-Com Cinch connection/coupling modules
- for Mini-Com S-Video connection/coupling modules
- for Mini-Com D-Subminiature connectors 15pole
- for Mini-Com dummy modules 1 gang
- with $30^{\circ}$ oblique outlet
- without spreader claws


Central plate for 1 or 2 single modules Reichle\&De-Massari

| white, glossy | $\mathbf{1 4 7 2 \mathbf { 0 2 }}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 4 7 2} \mathbf{0 9}$ | 10 |
| polar white, matt/velvety | $\mathbf{1 4 7 2} \mathbf{1 9 0 9}$ | 10 |
| anthracite, matt | $\mathbf{1 4 7 2 \mathbf { 1 6 0 6 }}$ | 10 |
| aluminium, matt | $\mathbf{1 4 7 2 \mathbf { 1 4 0 4 }}$ | $\mathbf{1 0}$ |

For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.

## Attention!

Use only with intermediate ring for central plate from the corresponding range.

## Modules:

Reichle\&De-Massari

- with supporting plate
- for connecting modules RJ45 cat.5e and cat. 6
- for fibre-optic modules
- with $30^{\circ}$ oblique outlet
- without spreader claws

Order no.
Order no.
unit


| Central plate for double modules <br> Reichle\&De-Massari |  |  |
| :--- | :--- | :--- |
| white, glossy | $\mathbf{1 4 6 1 0 2}$ | 10 |
| polar white, glossy | $\mathbf{1 4 6 1} 09$ | 10 |
| polar white, matt/velvety | $\mathbf{1 4 6 1} \mathbf{1 9 0 9}$ | 10 |

For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.

## Attention!

Use only with intermediate ring for central plate from the corresponding range.

## Modules:

Diamond;
Reichle\&De-Massari
■ with supporting plate

- for connecting modules RJ45 cat.5e and cat. 6
- for fibre-optic modules
- with $30^{\circ}$ oblique outlet
$\square$ without spreader claws


Central plate for AMP modular jacks

| white, glossy | $\mathbf{1 4 6 3 0 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 4 6 3 0 9}$ | 10 |
| polar white, matt/velvety | $\mathbf{1 4 6 3 1 9 0 9}$ | 10 |
| anthracite, matt | $\mathbf{1 4 6 3 1 6 0 6}$ | 10 |
| aluminium, matt | $\mathbf{1 4 6 3 1 4 0 4}$ | 10 |

Indexing dimension $(W \times H)$ approx. $14,7 \times 20,7 \mathrm{~mm}$
Shielded versions touch each other.
For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.

## Attention!

Use only with intermediate ring for central plate from the corresponding range.

## MT-RJ jack:

AMP;
Intracom;
Telena;
Modular jacks:
CobiNet;
EFB Electronic;
Schumann;
Standard 110 Connect jack:
AMP;
SL series toolless jack:
AMP;
SL series 110 Connect Jack:
AMP;
SL series toolless jack with dust protection:
AMP

- with supporting plate

■ for AMP modular jacks series 110 Connect cat.3, cat.5, cat.5e and cat. 6
$\square$ for AMP fibre-optic couplings MT-RJ jacks
■ 2gang, with $30^{\circ}$ oblique outlet
$\square$ without spreader claws


| Central plate for Krone modular jacks |  |  |
| :--- | :--- | :--- |
| white, glossy | $\mathbf{1 4 6 4 0 2}$ | 10 |
| polar white, glossy | $\mathbf{1 4 6 4 0 9}$ | 10 |
| polar white, matt/velvety | $\mathbf{1 4 6 4 \mathbf { 1 9 } 0 9}$ | 10 |
| anthracite, matt | $\mathbf{1 4 6 4 \mathbf { 1 6 } \mathbf { 0 6 }}$ | 10 |
| aluminium, matt | $\mathbf{1 4 6 4 \mathbf { 1 4 ~ 0 4 }}$ | 10 |

Indexing dimension $(\mathrm{W} \times \mathrm{H})$ approx. $14,7 \times 19,4 \mathrm{~mm}$
For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.

## Attention!

Use only with intermediate ring for central plate from the corresponding range.

Modular jacks:
3M;
Asyco;
Dätwyler;
Erni;
Harting;
Hubbell;
ICS;
Krone;
Leoni Kerpen;
Nexans;
Setec;
Telegärtner;
Thomas \& Betts
■ with supporting plate
■ for Krone modular jacks cat.5, cat.5e and cat. 6
■ for Krone fibre-optic couplings MT-RJ jacks
■ for 3M fibre-optic couplings Volition
■ 2gang, with $30^{\circ}$ oblique outlet
■ without spreader claws


Centre plate with dust protection sliders and labelling field
white, glossy 11820002
polar white, glossy 1182006910
brown, glossy
light bronze, lacquered 11829011

| stainless steel, | 11829004 | 10 |
| :--- | :--- | :--- |

## lacquered

Labelling field height arranged for 6 mm P-touch strips.
For supporting plate 2gang order no. 4541 ..

■ for supporting plates with coloured mounts 2gang

Order no.
Packing
unit


| Centre plate for AMP-ACO and Siemens SML cabling system with labelling field |  |  |
| :---: | :---: | :---: |
| white, glossy | 11530002 | 10 |
| polar white, glossy | 11530069 | 10 |
| brown, glossy | 11530001 | 10 |
| light bronze, lacquered | 11539011 | 10 |
| stainless steel, | 11539004 | 10 |

For detailed information on relevant articles of the listed manufacturers please see Berker Online Catalogue.

Labelling field height arranged for 6 mm P-touch strips.

ACO and CO Plus inserts:
AMP, order no. 0-1394582-1, 0-1394763-1,
2-1394582-1;
Schumann;
Telena;
SML inserts:
Siemens

- with supporting plate
- cat. 5 , cat. 6 and cat. 7
- with $30^{\circ}$ oblique outlet
- for screw cover
- without spreader claws


| Central plate for fibre-optic couplings |  |  |
| :--- | :--- | :--- |
| Simplex ST |  |  |
| white, glossy | $\mathbf{1 4 9 2}$ | $\mathbf{0 2}$ |
| polar white, glossy | $\mathbf{1 4 9 2} \mathbf{0 9}$ | 10 |
| polar white, matt/velvety | $\mathbf{1 4 9 2} \mathbf{1 9 0 9}$ | 10 |

For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.

Attention!
Use only with intermediate ring for central plate from the corresponding range.

Fibre-optic couplings:
Ackermann;
AMP;
Brand-Rex;
BTR;
CobiNet;
Corning;
Diamond;
Drahtex;
Huber+Suhner;
Quante;
Telegärtner

- with supporting plate
- with $30^{\circ}$ oblique outlet
- for 2 fibre-optic couplings
- without spreader claws

Attention!
Use only with intermediate ring for central plate from the corresponding range.

ACO and CO Plus inserts:
AMP, order no. 0-0336627-1, 2-0336627-1,
0-0336627-3
■ cat. 5 , cat. 6 and cat. 7

Order no.
Packing unit


Central plate for fibre-optic couplings Duplex SC

| white, glossy | $\mathbf{1 4 8 0} \mathbf{0 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 4 8 0} \mathbf{0 9}$ | 10 |
| polar white, matt/velvety | $\mathbf{1 4 8 0} \mathbf{1 9 0 9}$ | 10 |

For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.

## Attention!

Use only with intermediate ring for central plate from the corresponding range.

Fibre-optic couplings:
Ackermann;
AMP;
Brand-Rex;
BTR;
CobiNet;
Corning;
Diamond;
Drahtex;
FiberCraft;
Huber+Suhner;
Krone;
Quante;
Telegärtner
$\square$ with supporting plate

- with $30^{\circ}$ oblique outlet

■ 1 knock out opening

- for 1 or 2 fibre-optic couplings
- without spreader claws


Central plate for 1 D-subminiature connector
white, glossy 14110210
polar white, glossy 14110910
polar white, matt/velvety 14111909

D-subminiature connectors see module inserts.
Attention!
Use only with intermediate ring for central plate from the corresponding range.
For D-subminiature connector order no. 1834, 1835, 1839
For mounting adapter order no. 1841, 1842
$\square$ with supporting plate
■ without spreader claws


Central plate for 2 D-subminiature connector
white, glossy
147002
10
polar white, glossy
14700910
polar white, matt/velvety 1470190910
D-subminiature connectors see module inserts.

## Attention!

Use only with intermediate ring for central plate from the corresponding range.
Labelling field not usable.
For D-subminiature connector order no. 1834, 1835, 1839
For mounting adapter order no. 1841, 1842
$\square$ with supporting plate

- without spreader claws

Order no.
Packing
unit
COMMUNICATION TECHNICS
Data connector housings


| Data connector housing with labelling field |  |  |
| :--- | :---: | :---: |
| white, glossy | \#1126 00 02 | 10 |
| polar white, glossy | \#1126 00 69 | 10 |
| brown, glossy | $\# 1126 \mathbf{0 0 0 1}$ | 10 |
| light bronze, lacquered | \#1126 90 11 | 10 |
| stainless steel, | $\# 1126 \mathbf{9 0 ~ 0 4}$ | 10 |
| lacquered |  |  |

lacquered
Labelling field height arranged for 6 mm P-touch strips.
Mounting plates see acessories order no. 1111 .., 1112 ..

■ with supporting plate

- for mounting plates
- without spreader claws


## SIGNALLING AND COMMAND UNITS



Central plate for transmitting and control device Ø 18.8 mm

| white, glossy | 143102 | 10 |
| :---: | :---: | :---: |
| polar white, glossy | 143109 | 10 |
| stainless steel, lacquered | 143104 | 10 |
| polar white, matt/velvety | 14311909 | 10 |
| anthracite, matt | 14311606 | 10 |
| aluminium, matt | 14311404 | 10 |

Screw distance 36 mm
For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.

## Attention!

Use only with intermediate ring for central plate from the corresponding range.
Suitable for installation of equipotential bonding
built-in socket order no. 4604
Circular plug-in connector:
Amphenol-Tuchel;
Binder;
Cannon;
Farnell;
Hirose;
Hirschmann;
Lumberg;
Monacor;
RS Components;
Signalling and command units:
Lumitas;
Schlegel;
Extra low voltage jack:
PRO-CAR
■ with supporting plate
■ with cut-out dia. 18.8 mm
■ without spreader claws

Order no.
Packing
unit
Centre plate for signalling and control device $\varnothing 18.8$ mm

| light bronze, metal | $\mathbf{1 0 7 0 0 1 0 1}$ | 10 |
| :--- | :--- | :--- |
| stainless steel | $\mathbf{1 0 7 0} 0104$ | 10 |
| gold metal | $\mathbf{1 0 7 0} 0102$ | 10 |

gold, metal
10700102
10
Screw distance 36 mm
For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.
Suitable for installation of equipotential bonding built-in socket order no. 4604

Circular plug-in connector:
Amphenol-Tuchel;
Binder;
Cannon;
Farnell;
Hirose;
Hirschmann;
Lumberg;
Monacor;
RS Components;
Signalling and command units:
Lumitas;
Schlegel;
Extra low voltage jack:
PRO-CAR
■ with supporting plate
■ with cut-out dia. 18.8 mm
■ without spreader claws


Central plate for signalling and control device Ø 22.5 mm
white, glossy 14320210
polar white, glossy 14320910
stainless steel, 143204
lacquered
yellow, glossy $143207 \quad 10$
polar white, matt/velvety 1432190910
anthracite, matt 14321606
aluminium, matt 14321404

Screw distance 36 mm
For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.

## Attention!

Use only with intermediate ring for central plate from the corresponding range.

Signalling and command units:
Kraus-Naimer;
Lumitas;
Schlegel;
Overvoltage protection devices:
Dehn, order no. NM DK 280;
OBO-Bettermann, order no. KNS/IS-D

- with supporting plate

■ with cut-out dia. 22.5 mm
■ without spreader claws

Order no.
Packing
unit


Centre plate for signalling and control device Ø 22.5 mm

| light bronze, metal | $\mathbf{1 0 7 1 0 1 0 1}$ | 10 |
| :--- | :--- | :--- |
| stainless steel | $\mathbf{1 0 7 1 0 1 0 4}$ | 10 |
| gold, metal | $\mathbf{1 0 7 1 0 1 0 2}$ | 10 |
| Screw distance 36 mm |  |  |

For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.

Signalling and command units:
Kraus-Naimer;
Lumitas;
Schlegel;
Overvoltage protection devices:
Dehn, order no. NM DK 280;
OBO-Bettermann, order no. KNS/IS-D
■ with supporting plate
■ with cut-out dia. 22.5 mm
$\square$ without spreader claws

## HOSPITAL INSTALLATION

| $l l$ |  |  |
| :--- | :--- | :--- |
| Central plate for double pole socket outlet <br> for floating output |  |  |
| white, glossy | $\mathbf{1 4 0 3 \mathbf { 0 2 }}$ | 10 |
| polar white, glossy | $\mathbf{1 4 0 3 0 9}$ | 10 |
| polar white, matt/velvety | $\mathbf{1 4 0 3} \mathbf{1 9} \mathbf{0 9}$ | 10 |
| anthracite, matt | $\mathbf{1 4 0 3 \mathbf { 1 6 0 6 }}$ | 10 |
| aluminium, matt | $\mathbf{1 4 0 3 \mathbf { 1 4 } \mathbf { 0 4 }}$ | 10 |

Attention!
Use only with intermediate ring for central plate from the corresponding range.
For double pole socket outlet for floating output order no. 1061

For double pole socket outlet according to DIN 42801

- with imprint

|  | Centre plate for double pole socket outlet <br> for floating output <br> stainless steel |
| :--- | :--- |
|  | For double pole socket outlet for floating output <br> order no. 1061 |
|  | with imprint |

Order no.
Packing
unit

| Central plate for 6pole socket outlet |  |  |
| :---: | :---: | :---: |
| white, glossy | 147402 | 10 |
| polar white, glossy | 147409 | 10 |
| stainless steel, lacquered | 147404 | 10 |
| polar white, matt/velvety | 14741909 | 10 |
| anthracite, matt | 14741606 | 10 |
| aluminium, matt | 14741404 | 10 |

## Attention!

Use only with intermediate ring for central plate from the corresponding range.

Nurse call system:
Ackermann, clino opt 99, order no. 71008C3;
Nurse call systems:
Ackermann, clino opt 90, clino phon 95,
order no. 71008C;
Siedle, order no. AD 306-0;
6pole socket outlets:
Hirschmann, Medu 600, Medu 600 GSK

lacquered

Nurse call system:
Ackermann, clino opt 90, 99 / clino phon 95, order no. 72642B;
Nurse call systems:
Ackermann, clino opt 90, 99 / clino phon 95,
order no. 72642C, 72639A, 71197A
$\square$ centre plate plug-in fixing


Centre plate for databus connection unit with plug-in opening

| white, glossy | $\mathbf{1 2 9 8 0 0 0 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 2 9 8 0 0 6 9}$ | 10 |
| stainless steel, | $\mathbf{1 2 9 8 0 0 0 4}$ | 10 |

st
12989004
lacquered

Nurse call system:
Ackermann, clino opt 99, order no. 73070A

- centre plate plug-in fixing


| Centre plate for plug-and-socket connector |  |  |
| :--- | ---: | ---: |
| white, glossy | $\mathbf{1 3 0 5 0 0 0 2}$ | 10 |
| polar white, glossy | $\mathbf{1 3 0 5 0 0 6 9}$ | 10 |
| stainless steel, | $\mathbf{1 3 0 5} \mathbf{9 0 0 4}$ | 10 |
| lacquered |  |  |

Nurse call system:
Ackermann, clino opt 99, order no. 74189A
■ a-coded for dropping plug-and-socket connector
■ centre plate plug-in fixing

Order no.
Packing


Nurse call system:
Ackermann, clino opt 99, order no. 73021D;
Nurse call systems:
Ackermann, clino opt 99, order no. 73020D

- for call unit with 2 auxiliary plug-in contacts
- centre plate plug-in fixing


Centre plate with 2 plug-in openings and imprint

| white, glossy | $\mathbf{1 2 4 4 0 0 0 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 2 4 4 0 0 6 9}$ | 10 |
| stainless steel, | $\mathbf{1 2 4 4} \mathbf{9 0 0 4}$ | 10 | lacquered

Nurse call system:
Ackermann, clino opt 99, order no. 73075C, 73020G, 73021G, 73075D
■ for call unit with 2 diagnostic plug-in contacts
■ centre plate plug-in fixing


## Nurse call systems:

Ackermann, clino opt 90, 99 / clino phon 95, order no. 73020E

- for call unit with diagnostic and auxiliary plug-in contact
■ for plug-in cover


Centre plate with red call push-button at bottom and plug-in opening

| white, glossy | $\mathbf{1 2 2 4 0 0 0 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 2 2 4 0 0 6 9}$ | 10 |

stainless steel, 12249004
lacquered

## Nurse call system:

Ackermann, clino opt 99, order no. 73022B, 73023B
■ for call push-button with plug-in contact

- button with lens
- centre plate plug-in fixing



## Nurse call system:

Ackermann, clino opt 99, order no. 73022A, 73022A2
■ for call push-button
■ button with lens

- centre plate plug-in fixing

Order no.
Order no.
Packing
unit


Nurse call system:
Ackermann, clino opt 99, order no. 73642B2
■ for call push-button and shut-off push-button
$\square$ buttons with lens

- centre plate plug-in fixing


Nurse call system:
Ackermann, clino opt 99, order no. 73642E
■ for shut-off push-button

- buttons with lens
- centre plate plug-in fixing


Centre plate with green presence button/white acknowledge button

| white, glossy | $\mathbf{1 2 9 9 0 0 0 2}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 2 9 9 0 0 6 9}$ | 10 |
| stainless steel, | $\mathbf{1 2 9 9 0 0 4}$ | 10 |

stainless steel
1299


| Centre plate for pullcord push-button with lens |  |  |
| :--- | :---: | :---: |
| white, glossy | $\mathbf{1 2 3 3 0 0 0 2}$ | 10 |
| polar white, glossy | $\mathbf{1 2 3 3 0 0 6 9}$ | 10 |
| stainless steel, | $\mathbf{1 2 3 3} \mathbf{9 0} \mathbf{0 4}$ | 10 |

lacquered

## Nurse call systems:

Ackermann, clino opt 90, 99 / clino phon 95, order no. 70045A3, 70046A3, 70046A
■ for pullcord push-button with pullcord and knob

- centre plate plug-in fixing

Centre plate for radio programme system with small sound system

| white, glossy | $\mathbf{1 3 0 0 \mathbf { 0 0 } \mathbf { 0 2 }}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 3 0 0 \mathbf { 0 0 } \mathbf { 6 9 }}$ | 10 |
| stainless steel, | $\mathbf{1 3 0 0} \mathbf{9 0 \mathbf { 0 4 }}$ | 10 |
| lacquered |  |  |

## Nurse call systems:

Ackermann, clino opt 90, 99 / clino phon 95, order no. 73120C, 73120H
■ for earpiece and volume control
■ with imprinted symbol curve

- centre plate plug-in fixing


## lacquered



Centre plate for radio programme selector switch

| white, glossy | $\mathbf{1 3 0 1 \mathbf { 0 0 } \mathbf { 0 2 }}$ | 10 |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 3 0 1 \mathbf { 0 0 } \mathbf { 6 9 }}$ | 10 |
| stainless steel, | $\mathbf{1 3 0 1 \mathbf { 9 0 } \mathbf { 0 4 }}$ | 10 |
| lacquered |  |  |

## Nurse call system:

Ackermann, clino opt 99, order no. 73642B

- for office unit
- buttons with lens

■ with imprint „SU-AUS WARTEN"
■ centre plate plug-in fixing

| Centre plate for pneumatic call switch <br> with lens |  |  |
| :--- | :---: | :---: |
| white, glossy | $\mathbf{1 2 3 6 0 0 0 2}$ | 10 |
| polar white, glossy | $\mathbf{1 2 3 6 0 0 6 9}$ | 10 |
| stainless steel, <br> lacquered | $\mathbf{1 2 3 6} \mathbf{9 0 \mathbf { 0 4 }}$ | 10 | lacquered

$\square$

Nurse call systems:
Ackermann, clino opt 90, 99 / clino phon 95,
order no. 73120A
■ with imprint „0-1-2-3-4-5"

- centre plate plug-in fixing

| Centre plate with microphone for interface unit |  |  |
| :--- | :---: | :---: |
| white, glossy | $\mathbf{1 3 0 2 0 0 0 2}$ | 1 |
| polar white, glossy | $\mathbf{1 3 0 2 0 0 6 9}$ | 1 |
| stainless steel, | $\mathbf{1 3 0 2 9 0 0 4}$ | 1 |

## Nurse call system:

Ackermann, clino opt 99, order no. 70006C;
Nurse call systems:
Ackermann, clino opt 90, 99 / clino phon 95,
order no. 70006A, 70006B
■ centre plate plug-in fixing


| COVERS IP44 |  |
| :---: | :---: |
| Sealings |  |
|  | Sealing set for all ARSYS IP44 devices $101000$ <br> for order no. 14241004,143610 04, 4758 .. <br> for rockers and SCHUKO socket outlets IP44 |
| Rockers |  |
| $\underline{\sim}$ | Rocker <br> stainless steel <br> 14241004 <br> Not suitable for push-button BCU and group push-button BCU. <br> IP44 protection is provided only with sealing set order no. 101000. <br> ■ with imprint „IP44" <br> $\square$ for rocker switches change-over, intermediate <br> ■ for rocker push-buttons |
| ** | Rocker with labelling field <br> stainless steel $14361004$ <br> Not suitable for push-button BCU and group push-button BCU. |
|  | Labelling field height arranged for 6 mm P-touch strips. <br> IP44 protection is provided only with sealing set order no. 101000. <br> ■ with imprint „IP44" <br> ■ for rocker switches change-over, intermediate <br> ■ for rocker push-buttons |

## SCHUKO-socket outlets



1) on page T6

IP44 protection is provided only with sealing set order no. 101000.

Connection terminals IEC 60884-1

- with imprint

■ with plug-in terminals


I on page T6
SCHUKO socket outlet with hinged cover
stainless steel 47581004
stainless steel, 47583004
enhanced contact
protection IEC 60884-1
$16 \mathrm{~A}, 250 \mathrm{~V} \sim$

SCHUKO socket outlet with hinged cover and labelling field
stainless steel 47582004
$16 \mathrm{~A}, 250 \mathrm{~V} \sim$
Labelling field height arranged for 6 mm P-touch strips.

IP44 protection is provided only with sealing set order no. 101000.

Connection terminals IEC 60884-1
■ with imprint

- with plug-in terminals


# Arsys Copper Med 

## Surface range, flush-mounted system

Berker Arsys Copper Med is the first switch whose material alone has a strong hygienic effect. Practical tests in hospitals have demonstrated the antibacterial effect of the switch's copper surface, which removes $99.9 \%$ of all germs within two hours. For this reason Arsys Copper Med is an important component of all responsible hygiene concepts in places where large numbers of people come together and wish to remain healthy - in hospitals, doctors' practices and retirement homes, but also schools, public offices, nurseries, airports and railway stations.

- Functional switches made from real, antibacterial copper
- Intelligently complements any responsible complete hygiene concept
- Range includes switch, rocker, 1 gang to 3gang frames, SCHUKO socket outlet and socket outlet with earth pin
- Regular cleaning helps maintain the antibacterial effect
- Copper patina does not impair the antibacterial effect
- Switch surfaces must not be lacquered, sealed or otherwise coated
- Available surface: copper, natural metal


| Frames | 274 |
| :--- | :---: |
| Covers switches/push-buttons | 274 |
| Socket outlets | 274 |



# Serie 1930/Glasserie/ Palazzo 

## Special range <br> Flush-mounted system

## Berker Serie 1930

Modern and classic - the Berker Serie 1930 in functional Bauhaus-style design creates a special ambience and is the perfect combination of innovative technology and timeless design. Also available in genuine porcelain made by Rosenthal.

- Available surfaces: glossy in polar white, black


## Berker Glasserie

The practical design and the transparency of real glass help your customers to create truly one-of-a-kind interior designs.

- Replica of Bauhaus design (around 1920)
- Suitable for both older buildings and modern living spaces
- Available surfaces: clear glass.

Design: TECNOLUMEN

## Berker Palazzo

An extravagant solution outside the conventional market, suitable for prestigious living spaces, spas, business premises and restaurants.

- High-grade materials with marble or mahogany root-wood effects, framed in

24-carat real gold-plated decorative rings

- Available surface decorations: white marble, black marble, root-wood mahogany brown

Serie 1930/Glasserie/Palazzo
All switches/push-buttons combinable with rotary toggle in polar white or black (incl. centre plate), chrome or brass


| Berker Serie 1930 Porzellan made by Rosenthal | 278-279 |
| :---: | :---: |
| Frames Serie 1930 | 280 |
| Cover plates/Frames Glasserie | 281 |
| Cover plates/Frames Palazzo | 282 |
| Serie 1930/Glasserie/Palazzo | 285-286 |
| Rotary switch | 283 |
| Rotary push-button | 283 |
| Covers switches/push-buttons | 283 |
| Covers for shutters | 283 |
| Pilot lamps | 284 |
| Rotary dimmers | 284 |
| Socket outlets | 285 |
| Blank plates | 285 |
| TV/Audio/Video | 285 |
| Data/Tele communications | 286 |
| Accessories | 286 |

Serie 1930 porcelain frames have a larger diameter in order to better highlight the high-quality Rosenthal porcelain. Due to the special impression created by the material, we recommend placing each device in a 1gang porcelain frame when combining more than one device. When doing so, please observe the distance dimensions shown below.


Special considerations for installation

- For flush-mounted installation a centre-to-centre dimension of 91 mm is recommended. In order to maintain the appropriate distance during plastering, flush-mounting boxes from Kaiser with snap-tunnel supports must be used. Their distance can be set easily and optimally using a spacer gland (order no. 1887).
- For hollow-wall installation, we also recommend a centre-to-centre dimension of 91 mm .
- Due to its diameter of 84.5 mm , the porcelain frame cannot be installed with a Serie 1930 surface-mounted frame.

For integration of additional functions (e.g. socket outlet, rotary dimmer), the porcelain frame can be combined with all Serie 1930 centre inserts made of plastic.

## Porcelain frame 1gang

| polar white, glossy | $\mathbf{1 3 8 1 6 9}$ | 1 |
| :--- | :--- | :--- |
| black, glossy | $\mathbf{1 3 8 1 6 5}$ | 1 |

Attention! In combinations, the spacer gland for
I on page T68 Kaiser flush-mounted boxes must be used, see accessories order no. 1887

- of porcelain

COVERS SWITCHES/PUSH-BUTTONS
Centre plate with toggle for rotary switches
and spring-return push-buttons
polar white, glossy 164769
black, glossy 164765
For group spring-return push-button order
no. 383800
For spring-return push-button order no. 384600 For rotary switch order no. 3875 00, 3876 00, 3877 00, 389300

- of porcelain

Order no.
Packing
unit
FRAMES


Frame 1gang
polar white, glossy
black, glossy
138109
10
138101


Attention! In combinations, the spacer gland for
I on page 168 Kaiser flush-mounted boxes must be used, see accessories order no. 1887

■ for single mounting


I on page T68

| Centre frame |  |  |
| :--- | :---: | :---: |
| polar white, glossy | $\mathbf{1 3 8 1 5 9}$ | 10 |
| black, glossy | $\mathbf{1 3 8 1 5 1}$ | 10 |
|  |  |  |
| Combinations are only to be installed in simple combi |  |  | boxes.

$■$ for combination mounting


I on page T68

|  | ■ for combination mounting |  |
| :---: | :---: | :---: |
|  | Frame 2gang | $\begin{aligned} & 2 \\ & 2 \end{aligned}$ |
| I on page T68 | ■ for vertical and horizontal mounting |  |
|  | Frame 3gang | 2 2 |
| 1 on page T68 | ■ for vertical and horizontal mounting |  |

Order no.
Packing
unit

## SURFACE-MOUNTED FRAMES



Surface-mounted frame 1gang
polar white, glossy 100109 10
black, glossy 100101 10
Installation depth 33,5 mm

I on page T68 Multiple combinations possible with combination connector order no. 182305,182309
$■$ with cable and duct entry
Accessories: Self-extinguishing base plate 1 gang

| polar white | $\mathbf{1 3 3 1 1 9}$ | 10 |
| :--- | :--- | :--- |
| black | $\mathbf{1 3 3 1 1 1}$ | 10 |

for order no. 1001 ..

- with imprint

■ suitable for mounting on flammable base surface
 for order no. 1001 ..

- to combine surface-mounted devices

|  | Cable and duct entry |  |  |
| :--- | :--- | :--- | :--- |
| polar white | $\mathbf{1 8 1 3} \mathbf{0 9}$ | 10 |  |
| black | $\mathbf{1 8 1 3 0 5}$ | 10 |  |
| white | $\mathbf{1 8 1 3}$ | 10 |  |

Also suitable for surface-mounted frames and housings from the flush-mounted ranges.

■ for wire or $15 \times 15 \mathrm{~mm}$ cable duct

| Tube entry |  |  |
| :--- | :--- | :--- |
| polar white | $\mathbf{1 8 1 7} \mathbf{0 9}$ | 10 |
| black | $\mathbf{1 8 1 7} \mathbf{0 5}$ | 10 |

Distance from wall to centre of pipe 16 mm
Suitable ducts for surface-mounted installation can be purchased at www.fraenkische-elektro.de

Suitable for surface-mounted frames and housings of the flush-mounted range.

■ for tubes with $\varnothing 15.2$ mm (PG 9) and M 16

- for tubes with coupling dia. 20.5 mm (PG 13.5) and M 20

Order no.
Packing unit

## COVER PLATES

Glass cover plate for rotary switch/rotary push-button
clear 1090

Attention! In combinations, the spacer gland for
I on page T68
Kaiser flush-mounted boxes must be used, see accessories order no. 1887

- for single mounting
with polar white plastic base
- toughened glass



## Glass end cover plate for rotary switch/rotary push-button

clear
1094
10

Combinations are only to be installed in simple combi boxes.
1 on page T68
$\square$ for combination mounting

- with polar white plastic base
- toughened glass


Glass centre cover plate for rotary switch/
rotary push-button
clear 109510

Combinations are only to be installed in simple combi boxes.
I on page T68

■ for combination mounting

- with polar white plastic base
- toughened glass


## FRAMES

Glass frame
clear
1091
10

Attention! In combinations, the spacer gland for Kaiser flush-mounted boxes must be used, see 1 on page T68 accessories order no. 1887

- for single mounting
- with polar white plastic base

■ toughened glass


Glass centre frame
clear 1093

10

Combinations are only to be installed in simple combi boxes.

I on page T68

[^3]



1 on page 168

Order no.

## Decor end frame

white, decor marble 1092101
black, decor marble 109212
brown, decor root-wood 109211

Combinations are only to be installed in simple combi boxes.

■ for combination mounting

Order no.
Packing unit

## ROTARY SWITCHES



## Rotary switch

change-over intermediate
series
387600
387700
387500
389300
10 AX

Switching sequence e.g. for clockwise series switch:
$>1>1+2>2>0$

- with screw terminals


## ROTARY PUSH-BUTTONS



Spring return push-button
change-over contact, 384600 usable as NC or NO
$10 \mathrm{~A}, 250 \mathrm{~V}$
Without centre plate also suitable for mounting with glass and decor cover plates.

- with screw terminals


Group spring return push-button
2pole, isolated input 383800 terminals
$10 \mathrm{~A}, 250 \mathrm{~V}$ ~
Without centre plate also suitable for mounting with glass and decor cover plates.

- with neutral-position
- also suitable as push-button for shutters 2 gang
- with screw terminals


## COVERS SWITCHES/PUSH-BUTTONS

Centre plate with toggle for rotary switches
and spring-return push-buttons

For group spring-return push-button order no. 383800
For spring-return push-button order no. 384600
For rotary switch order no. 3875 00, 3876 00, 387700 , 389300

■ of plastic

|  | Centre plate with toggle for rotary switches <br> and spring-return push-buttons <br> polar white, glossy <br> black, glossy |
| :--- | :--- |
|  | 164769 |
| For group spring-return push-button order |  |
| no. 8838 00 |  |
| For spring-return push-button order no. 3846 00 |  |
| For rotary switch order no. 3875 00, 3876 00, 3877 00, |  |
| 3893 00 |  |


|  | Brass toggle <br> brass 1812 |
| :---: | :---: |
|  | For group spring-return push-button order <br> no. 383800 <br> For spring-return push-button order no. 384600 <br> For rotary switch order no. 3875 00, 3876 00, 387700 , 389300 <br> ■ for rotary switch/rotary push-button with toggle |
|  | Chrome toggle <br> brass, chrome-plated 181201 |
|  | For group spring-return push-button order no. 383800 <br> For spring-return push-button order no. 384600 <br> For rotary switch order no. 3875 00, 387600,387700 , <br> 389300 <br> for rotary switch/rotary push-button with toggle |
| SWITCHES FOR SHUTTERS |  |
| Rotary switches/rotary push-buttons for shutters |  |



I on page T5

Rotary switch for shutters with centre plate and rotary knob
polar white, glossy, 3811
1pole
black, glossy, 1pole 3811011
polar white, glossy, 3812
2pole
black, glossy, 2pole 381201
$10 \mathrm{~A}, 250 \mathrm{~V} \sim$
Follow the motor manufacturers` instructions!

■ with neutral-position

- with push lock function
- with screw terminals

Accessories: Interlock disk for rotary switch for shutters
for conversion to rotary 1861 10
push-button for shutters

Order no.
Packing
unit

## PILOT LAMPS

Push-buttons and pilot lamps


I on page T5

| Push-button and pilot lamp E10 <br> with centre plate |  |  |
| :--- | :--- | :--- |
| polar white, glossy, NO <br> contact | 5104 | 1 |
| black, glossy, NO | 510401 | 1 |

contact
$250 \mathrm{~V} \sim$

Momentary-contact current max. 2 A ;
Incandescent lamp power max. 2 W
for order no. 1225 .., 1226, 1227, 1229 ..
Can be illuminated using neon lamp E10 see module inserts order no. 1601
Can be illuminated using LED lamp E10 see module inserts order no. 1678 ..

■ for illumination and monitoring circuit
■ with screw terminals

## Accessories

| Knob for push-button and pilot lamp E10 |  |  |
| :--- | :--- | :--- |
| polar white, glossy | $\mathbf{1 2 2 5}$ | 10 |
| black, glossy <br> polar white, glossy, | $\mathbf{1 2 2 5} 01$ | 10 |
| Symbol light | $\mathbf{1 2 2 6}$ | 10 |
| polar white, glossy, <br> Symbol bell | $\mathbf{1 2 2 7}$ | 10 |
| red transparent <br> clear transparent | $\mathbf{1 2 2 9}$ | $\mathbf{1 2 2 9}$ |
|  |  | 10 |

For push-button and pilot lamp order no. 5104 ..


| $l$ |  |  |
| :--- | :---: | ---: |
| Cover for push-button and pilot lamp E10 |  |  |
| clear transparent | $\mathbf{1 2 2 1}$ | 10 |
| red transparent | $\mathbf{1 2 2 2}$ | 10 |
|  |  |  |
| For push-button and pilot lamp order no. 5104 | .. |  |

Order no.
Packing
unit

## ROTARY DIMMERS



Universal rotary dimmer with soft-lock, centre plate and setting knob
polar white, glossy 283410 1
black, glossy 283411

230 V~, 50/60 Hz
230 V incandescent and halogen lamps 50-420 W;
I on page T10 Electronic transformers 50-420 W;
Dimmable conventional transformers 50-420 VA;
Universal power boosters max. 10 phase cut-off á 500 W;
Universal power boosters max. 5 phase cut-on á 420 VA ;
Tronic or LV power boosters built-in/RMD max. 10 for same load type;
Axial dimension diameter 4 mm
Trouble-free operation will be obtained only with Berker Tronic transformers.

Do not connect conventional transformers together with electronic transformers.
Racd
$\mu \%$ O
18

- Z

■ with extension unit input for universal rotary dimmer extension unit
■ with incremental encoder

- with brightness memory

■ bulb-preserving soft startup

- short-circuit and overload proof (electronic fuse)

■ phase cut-on or cut-off according to load type, self-learning
■ voltage test possible without dismantling
■ expandable by universal power boosters RMD Plus with load cable switched in parallel

- with plug-in terminals


1 on page T10

Universal rotary dimmer extension unit with soft-lock centre plate and setting knob

| polar white, glossy | 283510 | 1 |
| :--- | :--- | :--- |
| black, glossy | 283511 | 1 |

black, glossy 283511
230 V , 50/60 Hz
Number of extension units max. 5;
Axial dimension diameter 4 mm

■ as extension unit for universal rotary dimmer

- with incremental encoder

■ voltage test possible without dismantling

- with plug-in terminals

Order no.

## SOCKET OUTLETS

SCHUKO-socket outlets


SCHUKO socket outlet

| polar white, glossy | $\mathbf{4 7 4 5} \mathbf{2 0}$ | 10 |
| :--- | :--- | :--- |
| black, glossy | $\mathbf{4 7 4 5} \mathbf{2 1}$ | 10 |
| polar white, glossy, | $\mathbf{4 7 5 5}$ | 10 |

polar white, glossy, 4755

10
enhanced contact
protection IEC 60884-1

1. on page T6
black, glossy, enhanced
475501
contact protection
IEC 60884-1
$16 \mathrm{~A}, 250 \mathrm{~V} \sim$

Connection terminals IEC 60884-1

- with plug-in terminals



## SCHUKO socket outlet

| polar white, glossy | $\mathbf{4 1 4 5} \mathbf{2 0}$ | 10 |
| :--- | :--- | :--- |
| black, glossy | $\mathbf{4 1 4 5} \mathbf{2 1}$ | 10 |

1) on page T6

Connection terminals IEC 60884-1
■ with screw-in lift terminals

## Socket outlets with earth pin



Socket outlet with earth pin
polar white, glossy,
676579
10
enhanced contact
protection IEC 60884-1
black, glossy, enhanced 67657901
10
contact protection
I on page T6
IEC 60884-1
$16 \mathrm{~A}, 250 \mathrm{~V} \sim$

Connection terminals IEC 60884-1

- 2pole + earth
- with screw-in lift terminals



## Socket outlet with earth pin

polar white, glossy, 676879
enhanced contact
protection IEC 60884-1
black, glossy, enhanced 67687901
contact protection
I on page T6
IEC 60884-1
$16 \mathrm{~A}, 250 \mathrm{~V} \sim$

## Connection terminals IEC 60884-1

- 2pole + earth
- with plug-in terminals

BLANK PLATES


Blank plate with centre plate

| polar white, glossy, | 100920 | 20 |
| :--- | :--- | :--- |

without spreader claws
black, glossy, without 10092120
spreader claws
polar white, glossy, 67100920
with base and spreader claws
black, glossy, with base 67100921
10
and spreader claws

■ with supporting ring

- centre plate plug-in fixing


## TV/AUDIO/VIDEO

Connector inserts


Miniature connector insert with centre plate
polar white, glossy 450820
black, glossy 450821

For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.
Loudspeaker socket see module inserts order no. 1800

For flange cover with 22.2 mm hole pitch to DIN 41529

Circular plug-in connector:
Cannon;
Conrad Electronic;
Dr. Ing. Sieger;
Farnell;
Hirschmann;
Lumberg;
Monacor;
RS Components
■ with supporting ring

- for 1 or 2 connectors
- for loudspeaker sockets
$\square$ for diode plug-in devices
- for miniature plug-in devices

■ 1 knock out opening


Order no.
Packing
unit
DATA COMMUNIGATIONS/TELECOMMUNICATIONS
Centre plate for cable outlet built-in and VDo connection box
polar white, glossy 103710
black, glossy 1037010

For cable outlet order no. 4468

VDo connector boxes:
Komos;
Rutenbeck;
Telena
■ with an outlet below
Centre plate for TAE socket outlet and loudspeaker connection box polar white, glossy 1040
black, glossy 1040010
For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.
For USB charging socket 230 V order no. 2600 ..
For loudspeaker connection box order no. 4572 .., 4573.

For USB data interface flush-mounted order no. 75040004

EAD socket outlets:
Drivex;
Fröhlich + Walter;
Intracom;
TAE and FCC overvoltage protection sockets:
Dehn;
FCC socket outlets:
Dätwyler;
Rutenbeck
■ also for TDO socket outlet
■ 2 knock out openings

| Centre plate for FCC socket outlet |  |  |
| :--- | :--- | ---: |
| polar white, glossy | $\mathbf{1 4 0 7}$ | 10 |
| black, glossy | $\mathbf{1 4 0 7} 01$ | 100 |

For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.
For FCC socket outlet order no. 4538, 4568
For FCC socket outlet shielded order no. 4554, 4586

FCC socket outlets:
AMP;
Brand-Rex;
BTR;
Crack-IT;
Rutenbeck;
Telegärtner;
Telena
■ with $45^{\circ}$ oblique outlet
$\square$ for 1 gang socket outlet cat.3, cat.5e and cat. 6

Order no.
Packing
unit

|  | Centre plate for FCC/E-DAT design/Telekom ISDN socket outlet <br> For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue. <br> For FCC socket outlet order no. 4539, 4562, 4592 <br> For FCC socket outlet shielded order no. 4555, 4587 <br> ISDN socket outlets (Rutenbeck): <br> Telekom; <br> FCC socket outlets: <br> AMP; <br> Brand-Rex; <br> BTR; <br> CobiNet; <br> Corning; <br> Crack-IT; <br> CTI Netzwerksysteme; <br> Dätwyler; <br> EFB Electronic; <br> eku Kabel \& Systeme; <br> Elmat/Süveg (STL-Gruppe); <br> Komos; <br> Leoni Kerpen; <br> Rutenbeck; <br> Setec; <br> Telegärtner; <br> Telena <br> - with $45^{\circ}$ oblique outlet <br> ■ for 2 gang socket outlet cat.3, cat.5e and cat. 6 |
| :---: | :---: |
| ACCESSORIES |  |
| Spacer gland |  |
|  | Spacer gland <br> red, for the new flush- <br> 1887 <br> mounted box generation <br> from Kaiser <br> Spacing enlargement 20 mm <br> Matching all boxes with SnapTunnel spouts from Kaiser for combinations with full glass cover plates/ glass frames, frames 1gang SERIE 1930 and full Palazzo decor cover plates/decor frames. |

Spacer gland

## Spacer gland

red, for the new flush1887
mounted box generation

Spacing enlargement 20 mm
Matching all boxes with SnapTunnel spouts from Kaiser for combinations with full glass cover plates/ glass frames, frames 1gang SERIE 1930 and full Palazzo decor cover plates/decor frames.

## Berker TS

## Special range <br> Flush-mounted system

An extraordinary design created to meet very special design requirements. With its elegant glass surface, including with bevelled edge, the Berker TS perfectly fits into any sophisticated surroundings.

- Suitable for installation bus systems and relay circuits with safety extra-low voltage
- Glass material


| Cover plates | 290 |
| :--- | :---: |
| Buttons | 290 |
| Wall boxes | 290 |
| Screws | 290 |
| Push-buttons interfaces | 290 |
| Universal interfaces | $291-292$ |
| Binary inputs | 292 |

Order no.
Packing
Order no.
Packing
unit


I on page T69 For glass cover plate order no. 1311, 1321, 1341, 1366, 1388, 1391, 1392, 1394

- plastic

Mount only with mounting boxes order no. 1809, 1824

■ for vertical and horizontal mounting

- glass with polar white imprint on the backside
- with polar white plastic base

■ with two-hole screws as dismantling protection and screwdriver
■ each with $23.5 \times 25 \mathrm{~mm}$ screws in chrome, gold and stainless steel


Order no.
Packing
unit
Order no.

Universal interfaces


## Universal interface 2gang comfort

 flush-mountedlight grey 75642001
Operating voltage over bus $21-32 \mathrm{~V}=$;
Input scanning voltage per channel 5 V ;
Output current per channel max. $0,8 \mathrm{~mA}$;
Operating temperature $-5-+45{ }^{\circ} \mathrm{C}$;
Cable length approx. 250 mm ;
Extendable cable length max. 5 m ;
Dimensions (L x W x H) $43 \times 28,5 \times 15,5 \mathrm{~mm}$

■ with 2 independent binary inputs for potential-free contacts

- 2 binary inputs, 2 outputs or 1 binary input and 1 output parameterisable
■ outputs for LED e.g. as status LED
$\square$ for switch, push-button, dimmer and shutter functions
- value transmitter for dimming, position, brightness and temperature values 1 and 2 byte
functions: impulse counter or switch counter for input 1
- for impulse counter function, input 2 is required for the synchronising signal
■ extension unit for light scene push-button
- cyclic transmission parameterisable for switching function
- single and two push-button operation parameterisable
■ one push-button operation for switching, pushing, shutters and dimming
$■$ shutter operation concept short-long-short and long-short parameterisable
■ objects for locking individual inputs and outputs
■ objects: switching, forced guidance and feedback of respective output
- object for logic operations (e.g. OR/AND/AND with feedback)
$\square$ with programming button and red programming LED
$■$ bus connection via connecting terminal


## Universal interface 4gang comfort flush-mounted <br> light grey $\quad 75644001$

Operating voltage over bus 21-32 V=; Input scanning voltage per channel 5 V ; Output current for channels 1 and 2 , each max. 0,8 mA;
Operating temperature $-5-+45^{\circ} \mathrm{C}$;
Cable length approx. 250 mm ;
Extendable cable length max. 5 m ;
Dimensions (L x W x H) $43 \times 28,5 \times 15,5 \mathrm{~mm}$

■ with 4 independent binary inputs for potential-free contacts

- 4 binary inputs or 2-3 binary inputs and 1-2 outputs parameterisable
■ outputs for LED e.g. as status LED
$\square$ for switch, push-button, dimmer and shutter functions
$\square$ value transmitter for dimming, position, brightness and temperature values 1 and 2 byte
- functions: impulse counter or switch counter for inputs 1 and 2
- for impulse counter function, inputs 3 and 4 are required for the synchronising signal
- extension unit for light scene push-button
- cyclic transmission parameterisable for switching function
$\square$ single and two push-button operation parameterisable
■ one push-button operation for switching, pushing, shutters and dimming
- shutter operation concept short-long-short and long-short parameterisable
- objects for locking individual inputs and outputs
- objects: switching, forced guidance and feedback of respective output
- object for logic operations (e.g. OR/AND/AND with feedback)
- with programming button and red programming LED
- bus connection via connecting terminal

Order no.

## Universal interface 8gang comfort

flush-mounted
black $75648001 \quad 1$

Operating voltage over bus 21-32 V=;
Input scanning voltage per channel 20 V ;
Output current per channel max. 0,8 mA;
Operating temperature $-5-+45{ }^{\circ} \mathrm{C}$;
Max. cable length 10 m ;
Dimensions (W x H x D) $44 \times 48 \times 32 \mathrm{~mm}$
with 8 independent binary inputs for potential-free contacts

- 8 binary inputs, 8 outputs or 4 binary inputs and 4 outputs parameterisable
■ outputs for LED e.g. as status LED
$■$ with programming button and red programming LED
- for switch, push-button, dimmer and shutter functions
■ dimming / position value transmitter 1 byte
$■$ extension unit for light scene push-button
■ cyclic transmission can also be started via switching object
- single and two push-button operation parameterisable
■ one push-button operation for switching, pushing and dimming
$■$ shutter operation concept short-long-short and long-short parameterisable
■ objects: switching, pos. oper., feedback of respective output (only for applic. 4input/4output)
■ object for audio/video control
$■$ second operating level by object or 3-button handle (only 8-input application)
$\square$ short-circuit and overload proof (electronic fuse)
- protected against polarity reversal
- bus connection via connecting terminal

■ with screw terminals

Binary input 6gang 24 V AC/DC RMD
light grey 75216001
Operating voltage over bus $21-32 \mathrm{~V}=$;
Signal voltage 8-42 V~/=;
Signal frequency $50 / 60 \mathrm{~Hz}$;
Signal current 4 mA ;
Signal duration 200-100 \% ED;
Operating temperature $-5-+45{ }^{\circ} \mathrm{C}$;
Input cable length max. 100 m ;
RMD 2 modules;
Dimensions (W x H x D) $36 \times 90 \times 65 \mathrm{~mm}$;
Assembling height as from DIN rail 58 mm
External power supply 24 V necessary!
Detects the presence of or change in a voltage level at its inputs and, depending on the chosen application, sends telegrams over the instabus KNX/EIB.

■ with 6 independent binary inputs with 2 GND connections
■ with programming button and red programming LED

- with 6 yellow status LEDs for input states
$\square$ bus connection via connecting terminal
■ with screw terminals


# Berker TS Crystal 

## Special range for flush-mounted system Berker TS

Extravagance becomes manifest not only in a grand gesture, but, above all, in perfect detail. Seen in this way, the new Berker TS Crystal perfects luxury down to the last detail. Designed on the basis of the Berker TS, refined with Crystallized ${ }^{T M}$ - Swarovski Elements. It is, without a doubt, the most glamorous way to switch on a light.

- Crystalline variation of push-buttons with elegant Crystallized ${ }^{\text {TM }}$ - Swarovski Elements for the glass platform of the Berker TS
- Push-buttons available in 4 colours

Buttons 296

Order no.
Packing
Order no.
Packing
unit

## ACCESSORIES

Buttons


## Push-button Crystal

chrome 19640001
24 V
Momentary-contact current max. 1,5 A;
Installation depth 13 mm
I on page T69
Only suitable for safety low voltages!
For installation in glass cover plate order no. 1311,
1321, 1341, 1366, 1388, 1391, 1392, 1394
$■$ brass, refined

- with CRYSTALLIZED™-Swarovski Elements
- NO contact
- with plug-in terminals



## Push-button Black Diamond

stainless steel 19660215
1
24 V
Momentary-contact current max. 1,5 A;
Installation depth 13 mm
I on page T69
Only suitable for safety low voltages!
For installation in glass cover plate order no. 1311, 1321, 1341, 1366, 1388, 1391, 1392, 1394
$■$ brass, refined
■ with CRYSTALLIZED ${ }^{\text {™ }}$-Swarovski Elements
■ NO contact

- with plug-in terminals



## Push-button Siam

gold $\quad 19650208$
24 V
Momentary-contact current max. 1,5 A;
Installation depth 13 mm
I on page T69
Only suitable for safety low voltages!
For installation in glass cover plate order no. 1311, 1321, 1341, 1366, 1388, 1391, 1392, 1394

- brass, refined

■ with CRYSTALLIZED ${ }^{\text {TM }}$-Swarovski Elements

- NO contact
- with plug-in terminals


I on page T69

## Push-button Topaz

gold $\quad 19650203$
24 V
Momentary-contact current max. 1,5 A;
Installation depth 13 mm
Only suitable for safety low voltages!
For installation in glass cover plate order no. 1311, 1321, 1341, 1366, 1388, 1391, 1392, 1394

■ brass, refined

- with CRYSTALLIZED ${ }^{\text {TM }}$-Swarovski Elements

■ NO contact

- with plug-in terminals


# Berker TS Crystal Ball 

## Special range <br> Flush-mounted system

Multifaceted switching at its finest: With mirrored platform and control surface made of Crystallized ${ }^{\text {TM }}$ - Swarovski Elements, the Berker TS Crystal Ball lends refinement to any atmosphere.

- A glamorous eye-catcher in any exclusive environment
- Switch surface made from a multifaceted Crystallized ${ }^{\text {TM }}$ - Swarovski Element with capacitive sensor surface
- Requires only a gentle touch to operate


| Information for ordering and use | 300 |
| :--- | :---: |
| Crystal Ball | 301 |
| Universal interfaces | 301 |
| Push-buttons interfaces | 301 |
| Wall boxes | 301 |

The Berker TS Crystal Ball can be connected universally to bus systems or to relay circuits within the limits of the technical specifications. The crystal has an integrated sensor surface that can be used to switch/dim lights or to control roller shutters. The Crystal Ball requires a separate power supply (provided by the user) and must be installed in the 2gang wall box for glass sensor and Crystal Ball shown here.

The following table will assist you in ordering and putting together products within the various systems. For installation information please consult the special section for the Berker TS Sensor.

| Crystal Ball for | KNX/EIB | RADIO BUS | Relay control/ other systems |
| :---: | :---: | :---: | :---: |
| Required devices | 1 KNX/EIB universal interface, <br> 2gang, (order no. 756420 01) <br> 1 Wall box, 2gang <br> (order no. 1870) | 1 Radio push-button interface, flush-mounted, 4gang, (order no. 0126) <br> 1 Wall box, 2gang (order no. 1870) | 1 Wall box, 2gang (order no. 1870) |
| Provided by the user | Power supply (8 to 30 V DC) | Power supply (8 to 30 V DC) | Relay/system interface <br> Power supply <br> (8 to 30 V DC) |

## Connection

(see table above for ordering information)
It is absolutely essential to provide a separate power supply for the Crystal Ball. The corresponding interface or the relay is connected directly to the terminals of the Crystal Ball. After system startup, devices are controlled by pressing the sensor surface. Depending on the system the connected interface may not be fully utilised by the Crystal Ball. Any remaining interface channels can be used for other applications.


Order no.
Packing
unit

## GRYSTAL BALL

## Crystal Ball

Mirror glass, clear
168578
1
Operating voltage 8-30 V=;
Current consumption (operation) approx. 18,3 mA;
Current consumption (idle) approx. 4,3 mA;
Switching voltage max. $30 \mathrm{~V}=$
Momentary-contact current max. 10 mA ;
Surface adjustment 20 mm
For flush-mounted radio push-button interface
4gang order no. 0126
Only suitable for wall box 2gang for glass sensor order no. 1870
For flush-mounted universal interface 2gang comfort order no. 75642001
■ separate auxiliary power supply needed
■ operation by gently touching the Crystal Ball
$\square$ with adapter ring for dismantling protection and shadow gap formation

- with disassembly suction tool

■ with CRYSTALLIZED Swarovski elements
$\square$ NO contact
$\square$ with screw terminals
KNX/EIB
$\square$ for for parameterisable functions see universal interface 2gang comfort flush-mounted

- operation with non-choked output of KNX/EIB voltage supply possible (pay attention to current consum
RADIO BUS
$\square$ for settable functions see the radio push-button interface
Universal interfaces



## Universal interface 2gang comfort

 flush-mountedlight grey $\quad 75642001$
1
Operating voltage over bus 21-32 V=;
Input scanning voltage per channel 5 V ;
Output current per channel max. $0,8 \mathrm{~mA}$;
Operating temperature $-5-+45{ }^{\circ} \mathrm{C}$;
Cable length approx. 250 mm ;
Extendable cable length max. 5 m ;
Dimensions (L x W x H) $43 \times 28,5 \times 15,5 \mathrm{~mm}$
$\square$ with 2 independent binary inputs for potential-free contacts

- 2 binary inputs, 2 outputs or 1 binary input and 1 output parameterisable
■ outputs for LED e.g. as status LED
$\square$ for switch, push-button, dimmer and shutter functions
■ value transmitter for dimming, position, brightness and temperature values 1 and 2 byte
$\square$ functions: impulse counter or switch counter for input 1
$\square$ for impulse counter function, input 2 is required for the synchronising signal
- extension unit for light scene push-button
$\square$ cyclic transmission parameterisable for switching function
■ single and two push-button operation parameterisable
$\square$ one push-button operation for switching, pushing, shutters and dimming
$\square$ shutter operation concept short-long-short and long-short parameterisable
■ objects for locking individual inputs and outputs
■ objects: switching, forced guidance and feedback of respective output
$■$ object for logic operations (e.g. OR/AND/AND with feedback)
- with programming button and red programming LED
- bus connection via connecting terminal


Order no.

Push-button interfaces
Radio push-button interface 4gang flush-mounted
grey 0126
$3 \mathrm{~V}=$
Battery life approx. 3 years;
Radio channels max. 4;
I on page T47 Radio signal transmission frequency $433,42 \mathrm{MHz}$; Radio signal transmission power $<10 \mathrm{~mW}$; Radio signal transmission range (free field) max. 100 m;
Contact cleaner power pulse current 3 mA ;
Operating temperature $-20-+55^{\circ} \mathrm{C}$;
Cable length approx. 290 mm ;
Extendable cable length max. 5 m ;
Dimensions (diameter $\times H$ ) $38 \times 10 \mathrm{~mm}$
For battery-operated radio remote control of all assigned radio bus receivers.

Replacement Lithium coin cell battery see radio bus order no. 1857

- not dependent on mains power
$\square$ each channel can be allocated to as many radio receivers are required
- functions: 1- and 2-push-button operation for switching and dimming, shutter control, light scenes,
- function setting by 5 DIP-switches

■ with lithium coin cell battery 3 V type: CR 2032
$\square$ with red transmit and battery status LED
$\square$ to connect to max. 4 potential-free contacts
$\square$ with contact cleaner power pulse current for activation

- pre-assembled, with 4 cable pairs and plug
$\square$ for installation behind flush-mounted inserts
Accessories: Lithium coin cell battery 3 V 1857
$3 \mathrm{~V}=, 0,18 \mathrm{Ah}$
- type: CR 2032

■ 2 pcs. for replacement
ACCESSORIES
Wall boxes

## Wall box 2gang for glass sensor and Crystal Ball

$$
1870
$$

1
Dimensions (W x H x D) $68 \times 139 \times 75 \mathrm{~mm}$;
Cut hole diameter $2 \times 68 \mathrm{~mm}$;
Cut hole pitch 71 mm

For glass sensor 1gang order no. 1681 .., 1691 ..
For glass sensor 2gang order no. 1682 .., 1692 ..
For glass sensor 3gang order no. 1683 .., 1693 ..
For glass sensor 4gang order no. 1684 .., 1694 ..
For Crystal Ball order no. 168578
For glass sensor 2gang with room thermostat order no. 7564 ..
For glass sensor 3gang with room thermostat order no. 7564 ..
$\square$ for flush mounting and hollow-wall mounting

- flush wall-mounting or with adapter ring


# Berker TS Sensor 

## Special range Flush-mounted system

With the Berker TS Sensor a gentle touch of the plain surface is all that is needed to activate lights, blinds, shutters etc. Completely reduced to a simple smooth surface, this control concept is ideal for especially sophisticated projects. In the variant with thermostat and integrated elegant „dark design" display, the TS Sensor becomes a convenient room control device.

- Suitable for installation bus systems and relay circuits
- Electronics are positioned directly on the backside of the glass plate for exceptional switching reliability
- Super-flat design enables on-the-wall installation
- LEDs can be used to show readiness for operation and to display switching states
- Completely smooth surface made possible by screw-free fastening
- Labelling on the backside for perfect protection

Design and labelling concept in three variants

- Basic: delivered without labelling and symbols
- Customised: pre-defined symbols, colours and labelling can be selected via Web Configurator; for further information, see www.berker.de/ts-sensor Note: configuration cannot be changed once the order has been placed
- Manufacture: individual design with free selection of fonts, colours and symbols. Contact your Berker sales representative for more information.

soob reddot design award

| Information for ordering and use | $304-305$ |
| :--- | ---: |
| Special consideration for instalation | 306 |
| Glass sensors | $307-309$ |
| Adapters | 310 |
| Universal interfaces | $310-311$ |
| Push-buttons interfaces | 311 |
| Wall boxes | 311 |

## DESIGN POSSIBILITIES

## BASIC

The product variants of the Berker TS Sensor can be ordered as a catalogue model with no printing with a choice of three background colours: polar white, aluminium and black.

## CUSTOMISED

The TS Sensor can be designed in a multitude of ways to meet even the most varied customer needs. The innovative product concept enables the reverse of the glass plate to be printed on with lettering and symbols to indicate the operating functions. In this location they are optimally protected against dirt, wear and damage.

This concept means, however, that the planned functions for each control panel must be defined in cooperation with the customer before ordering. Once ordering has taken place, the selected labelling and symbols can no longer be changed, because printing is carried, out only once at the time of production.

This is how simple it is:


Complete planning for installation

- Come to a final decision on the functions for each control panel

Create an individual design using the Web Configurator at www.berker.de/ts-glas-sensor

- Fill in the layout template with symbols/lettering
- Agree upon design with the customer
- Save the design on the Berker server


## Order the sensor

- Berker sends a design number
- Place order with wholesaler



## MANUFACTURE

The Web Configurator already offers a wide range of customisation options. If, however, this is still not sufficient to meet your customer's wishes, then Berker Manufacture is what you need. As far as it is technically feasible, the Berker TS Sensor can be manufactured with customised printing in any RAL colour, even with logos or drawings as a background. Only the colours of the LEDs are predefined for technical reasons. For further information, please contact your regional sales representative.

The new Berker TS glass sensors can be connected universally using adapters (accessories) to bus systems or to relay circuits within the limits of the technical specifications. Four product variants make it possible to assign up to eight sensor surfaces according to individual needs. To activate the LEDs the corresponding outputs must be provided at the interfaces or a second interface must be included. The glass sensor requires a separate power supply (provided by the user) and must be installed in the 2gang wall box for glass sensor and Crystal Ball shown here.
The following tables will assist you in ordering and putting together products within the various systems.

| KNX/EIB | Glass sensor, 1gang | Glass sensor, 2gang | Glass sensor, 3gang | Glass sensor, 4gang |
| :---: | :---: | :---: | :---: | :---: |
| Sensor surfaces | 2 | 4 | 6 | 8 |
| Required devices | 1 Adapter for KNX/EIB and relay (order no. 759000 32) <br> 1 KNX/EIB universal interface, 4gang (order no. 756440 01) <br> 1 Wall box, 2gang (order no. 1870) | $1 \mathrm{KNX} / \mathrm{EIB}$ adapter, $2 \times 8$ gang <br> (order no. 759000 31) <br> 1 KNX/EIB universal <br> interface, 8gang <br> (order no. 756480 01) <br> 1 Wall box, 2gang <br> (order no. 1870) | 1 KNX/EIB adapter, $2 \times 8$ gang <br> (order no. 759000 31) <br> 2 KNX/EIB universal <br> interfaces, 8gang <br> (order no. 756480 01) <br> 1 Wall box, 2gang <br> (order no. 1870) | 1 KNX/EIB adapter, $2 \times 8$ gang <br> (order no. 759000 31) <br> 2 KNX/EIB universal <br> interfaces, 8gang <br> (order no. 756480 01) <br> 1 Wall box, 2gang <br> (order no. 1870) |
| Provided by the user | Power supply ( 8 to 30 V DC) | Power supply ( 8 to $30 \vee$ DC) | Power supply <br> (8 to 30 V DC) | Power supply ( 8 to 30 V DC) |

In KNX/EIB applications the white LEDs on the control surfaces can be parameterised as status LEDs via the interfaces.

| RADIO BUS | Glass sensor, 1gang | Glass sensor, 2gang | Glass sensor, 3gang | Glass sensor, 4gang |
| :---: | :---: | :---: | :---: | :---: |
| Sensor surfaces | 2 | 4 | 6 | 8 |
| Required devices | 1 Adapter for KNX/EIB and relay (order no. 759000 32) <br> 1 Radio push-button interface, flush-mounted, 4gang, (order no. 0126) <br> 1 Wall box, 2gang (order no. 1870) | 1 Adapter for KNX/EIB and relay (order no. 759000 32) <br> 1 Radio push-button interface, flush-mounted, 4gang, (order no. 0126) <br> 1 Wall box, 2gang (order no. 1870) | 1 Adapter for KNX/EIB and relay (order no. 759000 32) <br> 2 Radio push-button interfaces, flush-mounted, 4gang, (order no. 0126) <br> 1 Wall box, 2gang (order no. 1870) | 1 Adapter for KNX/EIB and relay (order no. 759000 32) <br> 2 Radio push-button interfaces, flush-mounted, 4gang, (order no. 0126) <br> 1 Wall box, 2gang (order no. 1870) |
| Provided by the user | Power supply <br> ( 8 to 30 V DC) | Power supply ( 8 to $30 \vee$ DC) | Power supply $\text { (8 to } 30 \text { V DC) }$ | Power supply <br> (8 to 30 V DC) |

In the radio bus system the white LEDs should be operated using the factory setting, i.e. the LEDs light up for as long as the push-button is pressed, and acknowledge that the push-button interface has received a pulse.

| Relay circuit/ other systems | Glass sensor, 1gang | Glass sensor, 2gang | Glass sensor, 3gang | Glass sensor, 4gang |
| :---: | :---: | :---: | :---: | :---: |
| Sensor surfaces | 2 | 4 | 6 | 8 |
| Required devices | 1 Adapter for KNX/EIB and relay (order no. 759000 32) <br> 1 Wall box, 2gang (order no. 1870) | 1 Adapter for KNX/EIB and relay (order no. 759000 32) <br> 1 Wall box, 2gang (order no. 1870) | 1 Adapter for KNX/EIB and relay (order no. 759000 32) <br> 1 Wall box, 2gang (order no. 1870) | 1 Adapter for KNX/EIB and relay (order no. 759000 32) <br> 1 Wall box, 2gang (order no. 1870) |
| Provided by the user | Relay/system interface, <br> Power supply ( 8 to 30 V DC) | Relay/system interface, <br> Power supply ( 8 to 30 V DC) | Relay/system interface, <br> Power supply ( 8 to 30 V DC) | Relay/system interface, <br> Power supply ( 8 to $30 \vee$ DC) |

[^4]
## Mounting

Glass sensors are snapped in place on a "wall box, 2gang, for glass sensor and Crystal Ball" using adjustable retaining pins in such a way that the glass sensors are seated almost on the wall. The supplied adapter ring provides anti-dismantling protection and gives the glass plate shadow contours. The adjustable retaining pins can be used to compensate for deviating installation depths or irregularities of the wall of up to 20 mm .


## Connection

The glass sensor is connected to the interfaces of the respective systems via an adapter using a ribbon cable (see information for ordering and use). The separate power supply must be connected to the respective adapter.

GLASS SENSOR with ROOM THERMOSTAT


Connection
The glass sensor with room thermostat is connected directly to the KNX/EIB and separate power supply using the connecting terminals located on the backside.

## Removal

To pull glass sensors out of the clamp springs of the wall box, use the supplied dismantling aid with suction cups.

Order no.
Packing
unit
GLASS SENSORS


I on page T70
Glass sensor 2gang with room thermostat
glass, polar white $75642039 \quad 1$
glass, black 75642035 1
glass, aluminium $75642034 \quad 1$
glass, polar white, $\quad 75642139 \quad 1$ configured
glass, black, configured $75642135 \quad 1$
glass, aluminium, 75642134 configured
Operating voltage 18-30 V=;
Current consumption max. 23 mA ;
Surface adjustment 20 mm ;
Operating temperature $-5-+45{ }^{\circ} \mathrm{C}$
Only suitable for KNX/EIB!
With polar white there are colour deviations from the existing glass ranges.

For various printing options please see Web Configurator at www.berker.de/ts-glas-sensor.

For individually printed glass sensors the Web Configurator generates an extended order no. that must be specified when ordering
flush wall-mounting possible with wall box 2gang for glass sensor order no. 1870

- separate auxiliary power supply needed
- operation by gently touching the sensor surfaces on the white LED
- with adapter ring for dismantling protection and shadow gap formation
- for vertical mounting
- with disassembly suction tool
- with one blue ON LED and 4 white status LEDs
- operation with non-choked output of KNX/EIB voltage supply possible (pay attention to current consum
■ with integral bus coupling unit
- LED display with symbol display
- display of operating mode, controller lockout, room/ outside temperature, time (clock required)
- with 2 additional display sensor surfaces
- end customer display scope parameterisable
- for switch, push-button, dimmer, shutter and room thermostat functions
- value transmitter for dimming, position, brightness and temperature values 1 and 2 byte
$■$ single and two push-button operation parameterisable
■ sensor surfaces lockable via object
$\square$ for individual single room control
- controller operating modes: comfort, standby, night and frost/heat protection mode
- for heating and/or cooling mode with/without auxiliary step
■ control parameter for heating / cooling unit pre-set
- for continuous (PI) or switched (2-point) control
- temperature measurement via internal and/ or connectable remote sensor with mean value formation
- indicator objects for heating and cooling
- with valve protection function
- object for controller status
- with touch lock function
- bus connection via connecting terminal

Order no.


Only suitable for KNX/EIB!
With polar white there are colour deviations from the existing glass ranges.

For various printing options please see Web Configurator at www.berker.de/ts-glas-sensor.

For individually printed glass sensors the Web Configurator generates an extended order no. that must be specified when ordering
flush wall-mounting possible with wall box 2gang for glass sensor order no. 1870

■ separate auxiliary power supply needed

- operation by gently touching the sensor surfaces on the white LED
- with adapter ring for dismantling protection and shadow gap formation
- for vertical mounting
- with disassembly suction tool
- with one blue ON LED and 6 white status LEDs
- operation with non-choked output of KNX/EIB voltage supply possible (pay attention to current consum
■ with integral bus coupling unit
- LED display with symbol display
- display of operating mode, controller lockout, room/ outside temperature, time (clock required)
- with 2 additional display sensor surfaces
- end customer display scope parameterisable
- for switch, push-button, dimmer, shutter and room thermostat functions
- value transmitter for dimming, position, brightness and temperature values 1 and 2 byte
- single and two push-button operation parameterisable
■ sensor surfaces lockable via object
- for individual single room control
- controller operating modes: comfort, standby, night and frost/heat protection mode
- for heating and/or cooling mode with/without auxiliary step
- control parameter for heating / cooling unit pre-set
- for continuous (PI) or switched (2-point) control
- temperature measurement via internal and/ or connectable remote sensor with mean value formation
■ indicator objects for heating and cooling
- with valve protection function
- object for controller status

■ with touch lock function

- bus connection via connecting terminal

Order no.

| Glass sensor 1gang |  |  |
| :--- | :--- | :--- |
| glass, polar white | $\mathbf{1 6 8 1 0 9}$ | 1 |
| glass, black | $\mathbf{1 6 8 1 0 5}$ | 1 |
| glass, aluminium | $\mathbf{1 6 8 1 0 7}$ | 1 |
| glass, polar white, | $\mathbf{1 6 9 1 0 9}$ | 1 |
| configured   <br> glass, black, configured $\mathbf{1 6 9 1 0 5}$ 1 <br> glass, aluminium, <br> configured $\mathbf{1 6 9 1 0 7}$ 1 |  |  | con

Operating voltage 8-30 V=;
Current consumption (operation) approx. 20 mA ;
Switching voltage max. $30 \mathrm{~V}=$;
Switching current max. 10 mA ;
LED input voltage max. $5 \mathrm{~V}=$;
LED input current max. 1 mA ;
Surface adjustment 20 mm
For production-related reasons, with polar white there are colour deviations from the existing glass ranges.

For various printing options please see Web Configurator at www.berker.de/ts-glas-sensor.

For individually printed glass sensors the Web Configurator generates an extended order no. that must be specified when ordering
flush wall-mounting possible with wall box 2gang for glass sensor order no. 1870
For KNX/EIB adapter, $2 \times 8$ gang order no. 75900031
For adapter for KNX/EIB and relay order
no. 75900032

■ separate auxiliary power supply needed

- operation by gently touching the sensor surfaces on the white LED
- the blue LED can be set for Continuously ON or external activation
- the white LED can be set for Sensor operation or external activation
- with adapter ring for disassembly protection, shadow jointing and special installation conditions
- for vertical mounting
- with disassembly suction tool KNX/EIB
- with one blue ON LED and 2 white status LEDs
$■$ for adapting using KNX/EIB adapter $2 \times 8$ gang or wiring with adapter for KNX/EIB and relay
- for parameterisable functions see universal interfaces
■ operation with non-choked output of KNX/EIB voltage supply possible (pay attention to current consum
RADIO BUS
- with one blue ON LED and 2 white status LEDs, e.g. as orientation or control LED
$\square$ for wiring with adapter for KNX/EIB and relay
- for settable functions see the radio push-button interface
RELAY
$\square$ with one blue ON LED and 2 white status LEDs, e.g. as orientation or control LED
$\square$ for wiring with adapter for KNX/EIB and relay

Order no.


Glass sensor 2gang

| glass, polar white | 168209 | 1 |
| :---: | :---: | :---: |
| glass, black | 168205 | 1 |
| glass, aluminium | 168207 | 1 |
| glass, polar white, configured | 169209 | 1 |
| glass, black, configured | 169205 | 1 |
| glass, aluminium, configured | 169207 | 1 |

Operating voltage 8-30 V=;
Current consumption (operation) approx. 26 mA ;
Switching voltage max. $30 \mathrm{~V}=$;
Switching current max. 10 mA ;
LED input voltage max. $5 \mathrm{~V}=$;
LED input current max. 1 mA ;
Surface adjustment 20 mm
For production-related reasons, with polar white there are colour deviations from the existing glass ranges.

For various printing options please see Web
Configurator at www.berker.de/ts-glas-sensor.
For individually printed glass sensors the Web Configurator generates an extended order no. that must be specified when ordering
flush wall-mounting possible with wall box 2gang for glass sensor order no. 1870
For KNX/EIB adapter, $2 \times 8$ gang order no. 75900031
For adapter for KNX/EIB and relay order no. 75900032

■ separate auxiliary power supply needed
■ operation by gently touching the sensor surfaces on the white LED

- the blue LED can be set for Continuously ON or external activation
- the white LED can be set for Sensor operation or external activation
■ with adapter ring for disassembly protection, shadow jointing and special installation conditions
- for vertical mounting

■ with disassembly suction tool KNX/EIB
■ with one blue ON LED and 4 white status LEDs
$\square$ for adapting using KNX/EIB adapter $2 \times 8$ gang or wiring with adapter for KNX/EIB and relay

- for parameterisable functions see universal interfaces
■ operation with non-choked output of KNX/EIB voltage supply possible (pay attention to current consum


## RADIO BUS

- with one blue ON LED and 4 white status LEDs, e.g. as orientation or control LED
- for wiring with adapter for KNX/EIB and relay

■ for settable functions see the radio push-button interface

RELAY
■ with one blue ON LED and 4 white status LEDs, e.g. as orientation or control LED
$\square$ for wiring with adapter for KNX/EIB and relay

Order no.
Packing
unit

| Glass sensor 3gang |  |  |
| :---: | :---: | :---: |
| glass, polar white | 168309 | 1 |
| glass, black | 168305 | 1 |
| glass, aluminium | 168307 | 1 |
| glass, polar white, configured | 169309 | 1 |
| glass, black, configured | 169305 | 1 |
| glass, aluminium, | 169307 | 1 |

cont
Operating voltage 8-30 V=;
Current consumption (operation) approx. 32 mA ;
Switching voltage max. $30 \mathrm{~V}=$;
Switching current max. 10 mA ;
LED input voltage max. $5 \mathrm{~V}=$;
LED input current max. 1 mA ;
Surface adjustment 20 mm
For production-related reasons, with polar white there are colour deviations from the existing glass ranges.

For various printing options please see Web
Configurator at www.berker.de/ts-glas-sensor.
For individually printed glass sensors the Web Configurator generates an extended order no. that must be specified when ordering
flush wall-mounting possible with wall box 2gang for glass sensor order no. 1870
For KNX/EIB adapter, $2 \times 8$ gang order no. 75900031
For adapter for KNX/EIB and relay order no. 75900032

- separate auxiliary power supply needed
$\square$ operation by gently touching the sensor surfaces on the white LED
- the blue LED can be set for Continuously ON or external activation
- the white LED can be set for Sensor operation or external activation
- with adapter ring for disassembly protection, shadow jointing and special installation conditions
- for vertical mounting

■ with disassembly suction tool KNX/EIB

- with one blue ON LED and 6 white status LEDs

■ for adapting using KNX/EIB adapter $2 \times 8$ gang or wiring with adapter for KNX/EIB and relay

- for parameterisable functions see universal interfaces
■ operation with non-choked output of KNX/EIB voltage supply possible (pay attention to current consum

RADIO BUS
$\square$ with one blue ON LED and 6 white status LEDs, e.g. as orientation or control LED

- for wiring with adapter for KNX/EIB and relay
- for settable functions see the radio push-button interface

RELAY

- with one blue ON LED and 6 white status LEDs, e.g. as orientation or control LED
$\square$ for wiring with adapter for KNX/EIB and relay

Order no.

Glass sensor 4gang

| glass, polar white | 168409 | 1 |
| :---: | :---: | :---: |
| glass, black | 168405 | 1 |
| glass, aluminium | 168407 | 1 |
| glass, polar white, configured | 169409 | 1 |
| glass, black, configured | 169405 | 1 |
| glass, aluminium, | 169407 | 1 |

Operating voltage 8-30 V=;
Current consumption (operation) approx. 38 mA ;
Switching voltage max. $30 \mathrm{~V}=$;
Switching current max. 10 mA ;
LED input voltage max. $5 \mathrm{~V}=$;
LED input current max. 1 mA ;
Surface adjustment 20 mm
For production-related reasons, with polar white there are colour deviations from the existing glass ranges.

For various printing options please see Web
Configurator at www.berker.de/ts-glas-sensor.
For individually printed glass sensors the Web Configurator generates an extended order no. that must be specified when ordering
flush wall-mounting possible with wall box 2gang for glass sensor order no. 1870
For KNX/EIB adapter, $2 \times 8$ gang order no. 75900031
For adapter for KNX/EIB and relay order no. 75900032

■ separate auxiliary power supply needed

- operation by gently touching the sensor surfaces on the white LED
- the blue LED can be set for Continuously ON or external activation
■ the white LED can be set for Sensor operation or external activation
$\square$ with adapter ring for disassembly protection, shadow jointing and special installation conditions
- for vertical mounting
- with disassembly suction tool


## KNX/EIB

$\square$ with one blue ON LED and 8 white status LEDs
$\square$ for adapting using KNX/EIB adapter $2 \times 8$ gang or wiring with adapter for KNX/EIB and relay
$\square$ for parameterisable functions see universal interfaces
■ operation with non-choked output of KNX/EIB voltage supply possible (pay attention to current consum

## RADIO BUS

- with one blue ON LED and 8 white status LEDs, e.g. as orientation or control LED

■ for wiring with adapter for KNX/EIB and relay
■ for settable functions see the radio push-button interface

RELAY

- with one blue ON LED and 8 white status LEDs, e.g. as orientation or control LED
$\square$ for wiring with adapter for KNX/EIB and relay

Order no.


## Adapter for KNX/EIB and relay

 75900032For flush-mounted radio push-button interface 4gang order no. 0126
For flush-mounted universal interface 2gang comfort order no. 75642001
For flush-mounted universal interface 4gang comfort order no. 75644001
For flush-mounted universal interface 8gang comfort order no. 75648001

■ for wiring with universal interfaces, radio pushbutton interfaces or conventional relay/PLC


## KNX/EIB adapter $2 \times 8$ gang

 759000311

For flush-mounted universal interface 8gang comfort order no. 75648001

■ for adapting 1 or 2 universal interfaces 8 gang convenience flush-mounted


Universal interface 2gang comfort flush-mounted
light grey $\quad 75642001$
Operating voltage over bus 21-32 V=;
Input scanning voltage per channel 5 V ;
Output current per channel max. 0,8 mA;
Operating temperature $-5-+45{ }^{\circ} \mathrm{C}$;
Cable length approx. 250 mm ;
Extendable cable length max. 5 m ;
Dimensions $(\mathrm{L} \times \mathrm{W} \times \mathrm{H}) 43 \times 28,5 \times 15,5 \mathrm{~mm}$

- with 2 independent binary inputs for potential-free contacts
- 2 binary inputs, 2 outputs or 1 binary input and 1 output parameterisable
■ outputs for LED e.g. as status LED
$\square$ for switch, push-button, dimmer and shutter functions
- value transmitter for dimming, position, brightness and temperature values 1 and 2 byte
$\square$ functions: impulse counter or switch counter for input 1
$\square$ for impulse counter function, input 2 is required for the synchronising signal
■ extension unit for light scene push-button
■ cyclic transmission parameterisable for switching function
■ single and two push-button operation parameterisable
■ one push-button operation for switching, pushing, shutters and dimming
- shutter operation concept short-long-short and long-short parameterisable
■ objects for locking individual inputs and outputs
■ objects: switching, forced guidance and feedback of respective output
■ object for logic operations (e.g. OR/AND/AND with feedback)
- with programming button and red programming LED
$■$ bus connection via connecting terminal


## Universal interface 4gang comfort

 flush-mountedlight grey $\quad 75644001$

Operating voltage over bus 21-32 V=; Input scanning voltage per channel 5 V ;
Output current for channels 1 and 2 , each max. 0,8 mA;
Operating temperature $-5-+45^{\circ} \mathrm{C}$;
Cable length approx. 250 mm ;
Extendable cable length max. 5 m ;
Dimensions ( $\mathrm{L} \times \mathrm{W} \times \mathrm{H}$ ) $43 \times 28,5 \times 15,5 \mathrm{~mm}$

■ with 4 independent binary inputs for potential-free contacts
$\square 4$ binary inputs or 2-3 binary inputs and 1-2 outputs parameterisable
■ outputs for LED e.g. as status LED
■ for switch, push-button, dimmer and shutter functions
■ value transmitter for dimming, position, brightness and temperature values 1 and 2 byte
$\square$ functions: impulse counter or switch counter for inputs 1 and 2

- for impulse counter function, inputs 3 and 4 are required for the synchronising signal
- extension unit for light scene push-button

■ cyclic transmission parameterisable for switching function
$■$ single and two push-button operation parameterisable

- one push-button operation for switching, pushing, shutters and dimming
- shutter operation concept short-long-short and long-short parameterisable
- objects for locking individual inputs and outputs
- objects: switching, forced guidance and feedback of respective output
■ object for logic operations (e.g. OR/AND/AND with feedback)
■ with programming button and red programming LED
- bus connection via connecting terminal

Order no.

## Universal interface 8gang comfort flush-mounted <br> black $\quad 75648001$

1
Operating voltage over bus 21-32 V=; Input scanning voltage per channel 20 V ; Output current per channel max. $0,8 \mathrm{~mA}$; Operating temperature $-5-+45^{\circ} \mathrm{C}$;
Max. cable length 10 m;
Dimensions (W x H x D) $44 \times 48 \times 32 \mathrm{~mm}$

■ with 8 independent binary inputs for potential-free contacts

- 8 binary inputs, 8 outputs or 4 binary inputs and 4 outputs parameterisable
■ outputs for LED e.g. as status LED
$\square$ with programming button and red programming LED
- for switch, push-button, dimmer and shutter functions
- dimming / position value transmitter 1 byte
- extension unit for light scene push-button
- cyclic transmission can also be started via switching object
- single and two push-button operation parameterisable
■ one push-button operation for switching, pushing and dimming
- shutter operation concept short-long-short and long-short parameterisable
- objects: switching, pos. oper., feedback of respective output (only for applic. 4input/4output)
object for audio/video control
$\square$ second operating level by object or 3-button handle (only 8-input application)
- short-circuit and overload proof (electronic fuse)
- protected against polarity reversal
- bus connection via connecting terminal
- with screw terminals




## Accessories: Lithium coin cell battery $3 \mathbf{V}$

$3 \mathrm{~V}=, 0,18 \mathrm{Ah}$

- type: CR 2032

■ 2 pcs. for replacement

## ACCESSORIES

## Wall box 2gang for glass sensor and Crystal Ball

$$
1870
$$

1
Dimensions (W x H x D) $68 \times 139 \times 75 \mathrm{~mm}$;
Cut hole diameter $2 \times 68 \mathrm{~mm}$;
Cut hole pitch 71 mm
I on page T70

For glass sensor 1gang order no. 1681 .., 1691 ..
For glass sensor 2gang order no. 1682 .., 1692 ..
For glass sensor 3gang order no. 1683 .., 1693 ..
For glass sensor 4gang order no. 1684 .., 1694 ..
For Crystal Ball order no. 168578
For glass sensor 2gang with room thermostat order no. 7564 ..
For glass sensor 3gang with room thermostat order no. 7564 ..

■ for flush mounting and hollow-wall mounting

- flush wall-mounting or with adapter ring


## Motion detectors

## Building management systems Controllers/controller systems/ presence detectors

Berker controllers register every movement and react quickly and reliably. Thanks to their passive infrared technology they switch on and off again without touch contact. Berker controllers work reliably in all types of weather and are suitable for many applications.

Controllers/controller system

- Choice of detection angle: $70^{\circ}, 110^{\circ}, 180^{\circ}, 220^{\circ}$ or $240^{\circ}$
- Range up to 16 m
- Detection field up to $22 \times 20 \mathrm{~m}$
- Surface-mounted installation (up to protection class IP55) or flush-mounted installation (up to protection class IP44)
- One power pack for up to 8 controller system sensors
- Combinable with the Berker radio bus system via
radio controllers and radio system power pack
Presence detectors
- Lighting is switched on when brightness falls below switch-on level and even the tiniest movements are detected
- Lighting is switched off when ambient light reaches twice the switch-on brightness level set


| Controllers | $314-316$ |
| :--- | ---: |
| Radio controllers | 317 |
| Presence detectors | $318-319$ |
| Controller system | 310 |
| Accessories | $310-311$ |

Controllers from the flush-mounted, surface-mounted and standard ranges

Additional controllers that can be installed in conjunction with flush-mounted inserts are also available in certain design lines. Examples of fully assembled products are shown below.

## Modul 2



Berker S. 1


Berker B. 1


Berker B. 3

B. 3 from page 112

Berker Q. 1

Q. 1 from page 158

Berker K. 1

K. 1 from page 192

Berker K. 5

K. 5 from page 192

Berker Arsys


## Berker B. 7 Glas



Order no.
Packing
unit
CONTROLLERS


## Controller 70

| polar white | 014309 | 1 |
| :--- | :--- | :--- |
| anthracite | 014305 | 1 |

anthracite
014305
230 V~, 50/60 Hz
230 V incandescent and halogen lamps 1000 W ; Electronic transformers 750 W ;
1 on page T21 Conventional transformers 750 VA Fluorescent lamps in duo configuration 1000 VA; Fluorescent lamps uncompensated 500 VA;
Fluorescent lamps parallel compensated 400 VA; Recommended installation height approx. 2,4 m;
Range approx. 8 m;
Range adjustable in 3 stages, 4, 6 or 8 m ;
Detection field rectangular shaped approx. $8 \times 11 \mathrm{~m}$;
Detection angle $70^{\circ}$;
Detection levels 3;
Sectors 42
Switching segments 168;
Response brightness adjustable approx. 3-80 / unlimited Lux;
Delay time adjustable approx. 10 sec.- 5 min . ; Dimensions (W x H x D) $62 \times 120 \times 42 \mathrm{~mm}$

For electronic ballasts and energy-saving lamps with excessive switch-on currents use switch-on current limiters order no. 0185.

To prevent incorrect switching caused by draughts, the supplied seals must be used under the fastening screws.

Neutral conductor necessary!
Switches on for the duration of the delay time in case minimum response brightness level is infringed and if people are detected.

## 

 IP55■ specially for frontal approach
$\square$ activation by push-button opener in the cable

- for wall mounting
- with covers to limit the detection field
- with cable entry at top and bottom
$\square$ with plug-in terminals

Order no.
Packing
unit

## Automatic controller plus 110

polar white 010209
1
230 V~, 50 Hz
230 V incandescent lamps 2300 W;
230 V halogen lamps 1000 W;
Electronic transformers 1200 W;
I on page T21 Conventional transformers 1200 VA;
Fluorescent lamps in duo configuration 2300 VA; Fluorescent lamps uncompensated 1200 VA;
Fluorescent lamps parallel compensated 920 VA; Recommended installation height approx. 2,5 m; Range approx. 16 m;
Detection field width max. 25 m;
Detection angle $110^{\circ}$;
Detection levels 3;
Sectors 18;
Switching segments 72;
Response brightness adjustable approx. 5-300/ unlimited Lux;
Delay time adjustable approx. $12 \mathrm{sec} .-12 \mathrm{~min}$. ;
Operating temperature $-35-50{ }^{\circ} \mathrm{C}$;
Dimensions (W x H x D) $90 \times 125 \times 134 \mathrm{~mm}$
With new microprocessor controlled electronics.
For electronic ballasts and energy-saving lamps with excessive switch-on currents use making current limiter order No. 0185

Neutral conductor necessary!
Switches on for the duration of the delay time in case minimum response brightness level is infringed and if people are detected.

$■ \mu$-processor controlled mode of operation

- digital detection signal evaluation
- activation by push-button opener in the cable
$\square$ for wall mounting
$\square$ rotating and vertically slewing
$\square$ with covers to limit the detection field
- with 2 cable entries at bottom
- with fitting material

■ with screw terminals

Order no.
Packing
unit
Berker Control


Berker control
polar white 0190
1
230 V~, 50/60 Hz
230 V incandescent and halogen lamps 2300 W ; Electronic transformers 1200 W;
Conventional transformers 1200 VA;
1 on page T21 Fluorescent lamps in duo configuration 2300 VA ; Fluorescent lamps uncompensated 1200 VA;
Fluorescent lamps parallel compensated 920 VA;
Recommended installation height approx. 2,4 m;
Range approx. 16 m;
Detection field semi-oval shaped approx. $22 \times 20 \mathrm{~m}$;
Detection angle $220^{\circ}$;
Detection levels 4;
Sectors 145;
Switching segments 580;
Response brightness adjustable approx. 1-1000/
unlimited Lux;
Delay time adjustable approx. 2 sec.- 30 min ;
Limit shutdown after max. 90 min.;
Step operation $0,5 \mathrm{sec}$.;
Immunity time adjustable 1 sec.- 10 min.;
Response sensitivity programmable
approx. 20-100 \% ;
Operating temperature $-20-+55^{\circ} \mathrm{C}$;
Dimensions (W x H x D) $109 \times 112 \times 139 \mathrm{~mm}$
For electronic ballasts and energy-saving lamps with excessive switch-on currents use making current limiters order no. 0185.

## Neutral conductor necessary!

Switches on for the duration of the delay time in case minimum response brightness level is infringed and if people are detected.


IP55
$\square \mu$-processor controlled mode of operation
$\square$ digital detection signal evaluation
■ digital interference signal suppression
$\square$ with crawl-under protection
$\square$ with non-weather-dependent range consistency
■ glare-proof e.g. against a torch

- with LED detection and mode indicator
- with communication between individual units connected in parallel (controller system formation)
■ activation by push-button opener in the cable
$\square$ for wall and ceiling mounting
- cable entry from all sides possible

■ vertically slewing and horizontally rotating
$\square$ with cover elements to limit the detection field

- with 4 operating modes guard mode/4 h ON/4 h OFF/test mode
- mode change by NC push-button in lead

■ step operation with immunity time adjustment (e.g. for bell)

- with limit switch-off
- with fitting material
- with plug-in terminals

Order no.
Packing
unit
Ceiling controller


BLC ceiling controller 360
polar white 170111

1
Installation height approx. 3 m ;
Range for crossing approx. 10 m ;
Range for approaching approx. 6 m ;
Detection angle $360^{\circ}$;
Detection levels 5;
Sectors 78;
Switching segments 312;
Response brightness adjustable approx. 2-80 / unlimited Lux;
Delay time adjustable approx. $10 \mathrm{sec} .-30 \mathrm{~min}$. ; Step operation 1 sec.;
Immunity time approx. $2,5 \mathrm{sec}$.;
Number of extension units max. 10 ( 5 with order no. 2902);

Operating temperature $5-35^{\circ} \mathrm{C}$;
Dimensions (diameter x assembling height)
$103 \times 42 \mathrm{~mm}$
Switches on for the duration of the delay time set on the controller in case minimum response brightness level is infringed and if movement of people is detected.
In conjunction with a BLC relay switch unit HVAC, the HVAC-channel is also switched on for the duration of its delay time independent of response brightness.
For BLC universal touch dimmer order no. 2902
For BLC touch control unit 1-10 V order no. 2903
For BLC touch dimmer LV order no. 2904
For BLC triac switch insert LV order no. 2905
For BLC relay switch insert order no. 2906
For BLC relay switch insert with potential-free contact order no. 290610
For BLC controller extension unit order no. 2908
For BLC relay switch insert HVAC order no. 2912
For BLC Tronic switch insert order no. 2916 For BLC stair light time switching impulse insert order no. 293410

■ $\mu$-processor controlled operation (detection signal evaluation and interference signal suppression)

- detection field extension with BLC controller extension unit
■ step operation with immunity time (e.g. for bell)
- with red detection LED (when minimum response brightness level infringed)
■ on BLC or push-button (NO) extension units can be switched on by retriggering
■ on BLC dimmer inserts, saving of the switch-on brightness and temporary dimming via BLC extension un
- with dimming function (soft-off) when using BLC dimmer inserts
- activation by push-button opener in the cable

■ for ceiling mounting in 60 surface-mounted or hollow-wall box
■ with push-on cover to limit the detection field

- for BLC universal touch dimmer and BLC touch dimmer LV
■ for BLC push-button control unit 1-10 V
- for BLC triac- and tronic switch insert
- for BLC relay switch insert, -switch insert with potential free contact and -switch insert HVAC
■ for BLC detector extension units and BLC stair light impulse insert

Order no.

## Radio controller 180

polar white, glossy 01740109
1
$9 \mathrm{~V}=$
Alkaline battery life approx. 3 years;
Radio channels 1;
Radio signal transmission frequency $433,42 \mathrm{MHz}$;
I on page T47 Radio signal transmission power $<10 \mathrm{~mW}$;
Radio signal transmission range (free field)
max. 100 m;
Recommended installation height approx. 2,4 m; Range approx. 16 m;
Detection field semi-circular shaped
approx. $16 \times 32$ m;
Detection angle $180^{\circ}$;
Detection levels 3;
Sectors 36;
Switching segments 144 ;
Response brightness sensor < 80 Lux;
Night triggering sensor < 200 Lux;
Response sensitivity programmable
approx. 20-100 \% ;
Operating temperature $-25-+55^{\circ} \mathrm{C}$;
Dimensions (W x H x D) $80 \times 75 \times 115 \mathrm{~mm}$
The required Alkaline 9 V block battery (6LR61) is not included.

If response brightness or movement of people is insufficient, it sends a radio signal to the radio controller power pack unit or other radio bus receivers.

Lithium block battery see radio bus / accessories order no. 9209

IP55
■ not dependent on mains power

- each channel can be allocated to as many radio receivers are required
- with LED detection and battery charge indicator
- for wall mounting
- rotating and vertically slewing
$\square$ with push-on cover to limit the detection field
- with fitting material

Order no.
Packing
unit
Radio controller power pack surface-mounted polar white, glossy 0175091
230 V , $50 / 60 \mathrm{~Hz}$
230 V incandescent and halogen lamps 2300 W ; Electronic transformers 1500 W;
Conventional transformers 1000 VA;
I on page T47 Fluorescent lamps in duo configuration 2300 VA Fluorescent lamps uncompensated 1200 VA; Fluorescent lamps parallel compensated 920 VA; Response brightness approx. 3-80 Lux ;
Delay time adjustable approx. 10 sec.- 15 min .; Radio signal reception frequency $433,42 \mathrm{MHz}$; Learnable radio transmitters 30;
Operating temperature $-25-+55^{\circ} \mathrm{C}$;
Dimensions (W x H x D) $110 \times 94 \times 38 \mathrm{~mm}$
For electronic ballasts and energy-saving lamps with excessive switch-on currents use making current imiters order no. 0185.

Neutral conductor necessary!
Switches on when a taught-in radio telegram, such as from radio controller system sensors, is received with the minimum response brightness level infringed and people detected.
 IP55

- with LED detection and mode indicator
$\square$ with 3 operating modes guard mode/2 h ON/2 h OFF
■ operating mode change by NC push-button in lead or wall-mounted or hand-held radio transm.
- with 2 cable entries at bottom
- with fitting material
$\square$ with screw terminals

Order no.

PRESENCE DETECTORS
Presence detectors, surface type

$\begin{array}{lll}\text { Presence detector surface-mounted } \\ \text { polar white } & 170108 & 1\end{array}$
230 V~, 50/60 Hz
230 V incandescent and halogen lamps 1000 W ;
Electronic transformers 750 W;
Conventional transformers 750 VA;
I on page T18 Fluorescent lamps -;
Duo circuit KVG 1000 W;
uncompensated 500 VA;
parallel compensated 400 VA ;
Switching current (ohmic) max. 10 A ;
Switch-on current < 4 sec . max. 35 A per min.;
Recommended installation height approx. 2,5 m;
Detection field on floor approx. diameter 8 m ;
Detection field at desk height approx. diameter 5 m ;
Detection angle $360^{\circ}$;
Detection levels 6;
Sectors 80;
Switching segments 320;
Response brightness adjustable
approx. 10-1000 Lux;
Delay time adjustable approx. $10 \mathrm{sec} .-30 \mathrm{~min}$. ;
Operating temperature $5-35^{\circ} \mathrm{C}$;
Dimensions (diameter $x$ assembling height)
$103 \times 57,5 \mathrm{~mm}$
For electronic ballasts and energy-saving lamps with excessive switch-on currents use making current limiters order no. 0185.

The purpose of the presence detector is to save energy by switching off lighting when unoccupied or when ambient light level is sufficient.Application areas e.g. office buildings, schools, hotels and nursing homes.
$\square$ energy saving by means of presence and brightness-dependent ON and OFF switching of light
■ with communication between individual units connected in parallel (controller system formation)
■ on push-button (NO), extension units can be switched on and off by retriggering
$\square$ with red diagnosis and settings help LED
■ for ceiling assembly (also on a 60 wall box)
■ with push-on cover to limit the detection field
$\square$ with fitting material
■ with plug-in terminals

Order no.

## BLC presence detectors



## BLC presence detector with constant light regulation <br> polar white 170110

 1Recommended installation height approx. 2,5 m; Detection field on floor approx. diameter 8 m ;
Detection field at desk height approx. diameter 5 m ;
I on page T16 Detection angle $360^{\circ}$;
Detection levels 6;
Sectors 80;
Switching segments 320;
Response brightness adjustable
approx. 10-1000 Lux;
Delay time adjustable approx. $10 \mathrm{sec} .-30 \mathrm{~min}$;
Number of extension units max. 10 ( 5 with order no. 2902);
Operating temperature $5-35^{\circ} \mathrm{C}$;
Dimensions (diameter $x$ assembling height)
$103 \times 42 \mathrm{~mm}$
The purpose of the presence detector with constant light control is to save energy by dimming/switching off lighting when unoccupied or when ambient light level is sufficient. Furthermore, it facilitates presencedependent control of heating/ventilation systems in conjunction with the BLC relay/switch insert HVAC. Application areas e.g. office buildings, schools, hotels and nursing homes.

For BLC universal touch dimmer order no. 2902
For BLC touch control unit 1-10 V order no. 2903
For BLC touch dimmer LV order no. 2904
For BLC triac switch insert LV order no. 2905
For BLC relay switch insert order no. 2906
For BLC relay switch insert with potential-free contact order no. 290610
For BLC controller extension unit order no. 2908
For BLC relay switch insert HVAC order no. 2912
For BLC Tronic switch insert order no. 2916
For BLC stair light time switching impulse insert order no. 293410

■ energy saving by presence and brightnesscontrolled lighting control

- with Dia-presentation function
- detection field extension with BLC controller extension unit
■ also to be used as ceiling controller in through areas
■ on BLC or push-button (NO), extension units can be switched on and off by retriggering
- on BLC extension units, the brightness setpoint can also be temporarily changed
- with red diagnosis and settings help LED
- with dimming function (soft-off) when using BLC dimmer inserts
- for ceiling mounting in 60 surface-mounted or hollow-wall box
■ with push-on cover to limit the detection field
Built-on installation housings
Surface-mounted housing
for BLC and KNX/EIB presence detectors polar white 107609
Dimensions (diameter x H) $103 \times 45 \mathrm{~mm}$
for order no. 1701 10, 1701 11, 752620 01,
75264001

■ cable entry from all sides possible

Order no.

Radio presence detectors


Radio presence detector surface-mounted polar white, matt 0182091
6 V~
Battery life approx. 3 years;
Radio channels 1;
Radio signal transmission frequency $433,42 \mathrm{MHz}$;
I on page T47 Radio signal transmission power < 10 mW ;
Radio signal transmission range (free field)
max. 100 m ;
Recommended mounting height approx. $2,5 \mathrm{~m}$;
Detection field on floor approx. diameter 8 m ;
Detection field at desk height approx. diameter 5 m ;
Detection angle $360^{\circ}$;
Detection levels 6;
Sectors 80;
Switching segments 320 ;
Response sensitivity programmable
approx. 20-100 \% ;
Response brightness adjustable
approx. 10-2000 Lux;
Delay time adjustable approx. 2-60 min. ;
Operating temperature $0-45^{\circ} \mathrm{C}$;
Dimensions (diameter x assembling height)
$103 \times 42 \mathrm{~mm}$
The required batteries $4 \times$ Micro, alkaline (LRO3) are not included.

Only suitable for actuators with imprint release issue „R2" and higher.

- not dependent on mains power
- for the activation of max. 1 radio receiver
- energy saving by presence and brightnesscontrolled lighting control
- constant light control only possible in conjunction with dim actuators or control units
- with covers to limit the detection field
- with fitting material

Order no.
Packing
unit

## KNX/EIB-presence detectors



Presence detector standard
polar white 75262001
1
Recommended mounting height approx. $2,5 \mathrm{~m}$;
Detection field on floor approx. diameter 8 m ;
Detection field at desk height approx. diameter 5 m ;
Detection angle $360^{\circ}$;
Detection levels 6;
Sectors 80;
Switching segments 320 ;
Operating temperature $-5-+45^{\circ} \mathrm{C}$;
Dimensions (diameter x assembling height)
$103 \times 42 \mathrm{~mm}$
When movement of a person is detected a parameter defined data telegram is sent.
For bus coupling unit flush-mounted order no. 75040001

■ energy saving by means of presence and brightness-dependent switching of light, heating etc.

- with 2 output channels for which the parameters are to be set independently
■ with 2 operating modes presence detector or ceiling controller
- with teach object for response brightness

■ with potentiometers for fine adjustment of the response brightness, sensitivity and delay time
■ can only be used as individual unit

- with push-on cover to limit the detection field



## Presence detector comfort <br> polar white $\quad 75264001$

Recommended mounting height approx. $2,5 \mathrm{~m}$;
Detection field on floor approx. diameter 8 m ;
Detection field at desk height approx. diameter 5 m ;
Detection angle $360^{\circ}$;
Detection levels 6;
Sectors 80;
Switching segments 320 ;
Operating temperature $-5-+45^{\circ} \mathrm{C}$;
Dimensions (diameter $x$ assembling height)
$103 \times 42 \mathrm{~mm}$
When movement of a person is detected a parameter defined data telegram is sent.
For bus coupling unit flush-mounted order no. 75040001

■ energy saving by means of presence and brightness-dependent switching of light, heating etc.
■ with 4 output channels for which parameters are set independently, max. 2 per operating mode

- with 3 modes - presence detector, ceiling controller and message mode
- with teach object for response brightness
- with potentiometers for fine adjustment of the response brightness, sensitivity and delay time
$\square$ can be used as a single unit, main device or extension unit
■ with push-on cover to limit the detection field

Order no.

|  | Order no. $\begin{array}{r}\text { Packing } \\ \text { unit }\end{array}$ |
| :---: | :---: |
| CONTROLLER SYSTEM |  |
| 1 on page T22 | Controller system sensor 180 <br> polar white 015109 $15 \mathrm{~V}=$ <br> Detection field semi-circular shaped approx. $16 \times 32 \mathrm{~m}$; <br> Recommended installation height approx. $2,4 \mathrm{~m}$; <br> Range approx. 16 m ; <br> Detection angle $180^{\circ}$; <br> Detection levels 3; <br> Sectors 36; <br> Switching segments 144; <br> Operating temperature $-25-+55^{\circ} \mathrm{C}$; <br> Dimensions (W $\times \mathrm{H} \times \mathrm{D}$ ) $80 \times 68 \times 92 \mathrm{~mm}$ <br> Sends signal to controller system power pack if people are detected. <br> Use only in conjunction with controller system power pack order no. 0150 29, 0155, 0159 <br> IP55 <br> ■ with LED detection indicator <br> - for wall mounting <br> - rotating and vertically slewing <br> - with push-on cover to limit the detection field <br> - monitor system sensor line, e.g. JY-ST-Y $2 \times 2 \times 0.8$ mm <br> - with 2 cable entries at top <br> - with fitting material <br> - with screw terminals |
| I on page T22 | Controller system sensor 240 $15 \mathrm{~V}=$ <br> Detection field rectangular shaped approx. $22 \times 20 \mathrm{~m}$; <br> Recommended installation height approx. 2,4 m; <br> Range approx. 16 m ; <br> Detection angle $240^{\circ}$; <br> Detection levels 4; <br> Sectors 42; <br> Switching segments 168; <br> Response sensitivity programmable approx. 20-100 \% ; <br> Operating temperature $-25-+55^{\circ} \mathrm{C}$; <br> Dimensions (W x H x D) $80 \times 68 \times 117 \mathrm{~mm}$ <br> Sends signal to controller system power pack if people are detected. <br> Use only in conjunction with controller system power pack order no. 0150 29, 0155, 0159 <br> IP55 <br> - with crawl-under protection <br> - with LED detection indicator <br> $\square$ for wall mounting <br> - rotating and vertically slewing <br> - with push-on cover to limit the detection field <br> - with cover for crawl under protection <br> - monitor system sensor line, e.g. JY-ST-Y $2 \times 2 \times 0.8 \mathrm{~mm}$ <br> $\square$ with 2 cable entries at top <br> $\square$ with fitting material <br> - with screw terminals |

Order no.
Packing
unit

## Controller power packs



Controller system power pack surface-mounted polar white 015029
$230 \mathrm{~V} \sim, 50 \mathrm{~Hz}$
230 V incandescent and halogen lamps 2300 W ; Electronic transformers 1200 W;
I on page T22 Conventional transformers 1200 VA;
Fluorescent lamps in duo configuration 2300 VA;
Fluorescent lamps uncompensated 1200 VA;
Fluorescent lamps parallel compensated 920 VA;
Response brightness adjustable approx. 3-80/ unlimited Lux;
Delay time adjustable approx. 4 sec.- 15 min .;
Limit shutdown after max. 90 min.;
Operating temperature $-25-+55^{\circ} \mathrm{C}$;
Dimensions (W x H x D) $110 \times 94 \times 38 \mathrm{~mm}$
For electronic ballasts and energy-saving lamps with excessive switch-on currents use making current limiters order no. 0185.

Neutral conductor necessary!
Switches on for the duration of the delay time in case minimum response brightness level is infringed and if people are detected in front of the controller system sensors.

For controller system sensor 180 order no. 015109 For controller system sensor 240 order no. 015209 For controller system insert order no. 2939


IP55
■ for connection of controller system sensors and controller system inserts: max. 8 pieces

- with green indicator LED
- with limit switch-off
- with 2 cable entries at bottom
- with fitting material
- with screw terminals

Order no.
Packing
unit

## Controller system power pack RMD 1 channel light grey 0155

230 V , 50 Hz
230 V incandescent and halogen lamps 2300 W ; Electronic transformers 1200 W;
Conventional transformers 1200 VA;
I on page T22 Fluorescent lamps in duo configuration 2300 VA ; Fluorescent lamps uncompensated 1200 VA;
Fluorescent lamps parallel compensated 920 VA; Response brightness adjustable approx. 3-80/ unlimited Lux;
Delay time adjustable approx. $4 \mathrm{sec} .-15 \mathrm{~min}$. ; Limit shutdown after max. 90 min.;
Operating temperature $-25-+55^{\circ} \mathrm{C}$;
RMD 4 modules
For electronic ballasts and energy-saving lamps with excessive switch-on currents use making current limiters order no. 0185.

Neutral conductor necessary!
Switches on for the duration of the delay time in case minimum response brightness level is infringed and if people are detected in front of the controller system sensors.

For controller system sensor 180 order no. 015109 For controller system sensor 240 order no. 015209 For controller system insert order no. 2939
$\mu$ 国

- with potential-free contact

■ for connection of controller system sensors and controller system inserts: max. 8 pieces

- with limit switch-off
- with green indicator LED
$\square$ with limit switch-off
■ with screw terminals

Order no.


1 on page T22

| Controller system power pack RMD 2 channel |  |  |
| :--- | :---: | :---: |
| light grey | 0159 | 1 |

230 V , 50 Hz
230 V incandescent and halogen lamps 2300 W/ channel;
Electronic transformers 1200 W/channel;
Conventional transformers 1200 VA/channel; Fluorescent lamps in duo configuration 2300 VA/ channel;
Fluorescent lamps uncompensated 1200 VA/channel; Fluorescent lamps parallel compensated 920 VA/ channel;
Response brightness adjustable approx. 3-80/ unlimited Lux;
Delay time adjustable approx. 4 sec.- $15 \mathrm{~min} . /$ channel;
Limit shutdown after max. 90 min.;
Operating temperature $-25-+55^{\circ} \mathrm{C}$;
RMD 4 modules
For electronic ballasts and energy-saving lamps with excessive switch-on currents use making current imiters order no. 0185.

Neutral conductor necessary!
Switches on the relevant channel for the duration of the delay time in case minimum response brightness level is infringed and if people are detected in front of the controller system sensors.

For controller system sensor 180 order no. 015109
For controller system sensor 240 order no. 015209 For controller system insert order no. 2939
$\mu \mathrm{O} \square \mathrm{\square} \mathrm{\square} \mathrm{\square}$
$\square$ with potential-free and mains-connected contact
■ for connection of controller system sensors and controller system inserts: max. $2 \times 8$ pieces
$\square$ with limit switch-off

- with green indicator LED per channel
- with screw terminals


Corner mounting piece for controllers/sensors
polar white
014909

For controller system sensor 180 order no. 015109 For controller system sensor 240 order no. 015209
I on page T26
For radio controller 180 order no. 01740109
For weather station order no. 75490001

■ for mounting e.g. on building corners


Ceiling mounting angle for controllers/sensors

I on page T26


I on page T26


1) on page T26

Ceiling mounting angle
for 2 controllers/sensors
0158
1

For controller system sensor 180 order no. 015109 For controller system sensor 240 order no. 015209 For radio controller 180 order no. 01740109

■ for ceiling mounting of 2 controllers 180

## Mast fixing for controllers/sensors

$$
0154
$$

1
Mast diameter 50-120 mm

For controller system sensor 180 order no. 015109 For controller system sensor 240 order no. 015209 For radio controller 180 order no. 01740109 For weather station order no. 75490001

## Radio bus

## Building management systems Wireless bus system

The radio bus system allows you to install the most diverse applications, whether for modernisation or for installation in new buildings.

- Installation in places where conventional installation would not allow mounting of a switch (for example, glass walls)
- Retrofit installation of convenience functions - simply and inexpensively
- Radio hand-held transmitter for further convenience functions such as centralised operation of all lights in the house and garden simultaneous activation of lights and blinds in light scenes, or central switching-off of all electrical consumers upon leaving the house
- Radio buttons, transmitters and push-buttons available in the standard and surface range designs


Berker by :hager


| Centres | 324 |
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| Radio bus Berker Q.1 | $343-345$ |
| Radio bus Berker K.1/K.5 | $346-348$ |
| Radio bus Berker Arsys | $349-351$ |

Order no.
Packing
unit

## CENTRES



I on page T50
HM 1801
polar white, matt, 2700
1
German version
230/240 V~, 50/60 Hz
Radio channels 32;
Radio transmission/reception frequency $433,42 \mathrm{MHz}$;
Radio signal transmission power $<10 \mathrm{~mW}$;

Radio transmission/reception range(free field)
max 100 m;
Operating temperature $4-40^{\circ} \mathrm{C}$;
Dimensions (W x H x D) $140 \times 230 \times 50 \mathrm{~mm}$
The required batteries $5 \times$ Micro, alkaline (LR03) are not included.

■ as radio centre for all radio transmitters/actuators
■ switching, dimming, shutter control
$■$ master on/off, light scenes or scenarios e.g. coming/going
■ light scenes quick selection using keyboard
$\square$ with programmable logical and time operations
■ with chip card for saving and loading configurations/programes etc.

- preset and freely definable names for transmitter, receiver, rooms etc.
- time functions by means of radio time with DCF77 receiver
$\square$ time-dependent controller monitoring
- presence simulation
- update for function expansion possible

■ short message function/notepad function
■ with blue Master button either for short messages or coming/going function

- with child lock
- integral piezo buzzer
$\square$ with integral radio signal amplifier
- LC display with illumination
- indication of the time and room temperature
$\square$ pre-assembled, with cable and plug
■ with screw terminals


## Accessories: HM 1801 Mastercard

 polar white 270001 1
## For HM 1801 order no. 2700

■ for saving and loading additional configurations/ programes etc.

Order no.
Packing
unit

## HAND-HELD TRANSMITTERS



Radio hand-held transmitter comfort
anthracite, matt 2766
1
6 V=
Battery life approx. 3 years;
Radio channels 24;
Radio signal transmission frequency $433,42 \mathrm{MHz}$;
1 on page T47 Radio signal transmission power $<10 \mathrm{~mW}$;
Radio signal transmission range (free field) max. 100 m;
Operating temperature $0-55^{\circ} \mathrm{C}$;
Dimensions (L x W x H) $192 \times 53 \times 22,5 \mathrm{~mm}$
The required batteries $4 \times$ Micro, Alkaline (LR 03) are not included.

For battery-operated radio remote control of all assigned radio bus receivers.

■ each channel can be allocated to as many radio receivers are required
■ with 8 channel buttons (on/off; up/down; dimmer)

- with 3 channel group buttons A, B, C
- with 3 channel group LEDs (also transmission and battery status LEDs)
- with 5 light scene buttons
- with light scene dimmer button
- with master on/off function



## Radio hand-held transmitter mini

anthracite, matt 2769
1
3 V=
Battery life approx. 5 years;
Radio channels 2;
Radio signal transmission frequency $433,42 \mathrm{MHz}$;
I on page T47 Radio signal transmission power $<10 \mathrm{~mW}$;
Radio signal transmission range (free field)
max. 30 m;
Operating temperature $0-55^{\circ} \mathrm{C}$;
Dimensions $(\mathrm{L} \times \mathrm{W} \times \mathrm{H}) 73 \times 40 \times 19 \mathrm{~mm}$
For battery-operated radio remote control of all assigned radio bus receivers.

Replacement Lithium coin cell battery see radio bus order no. 1857

■ each channel can be allocated to as many radio receivers are required
■ 2 buttons each per channel for On/Off, Up/Down, dimmer function

- with red transmit and battery status LED

■ with lithium coin cell battery 3 V type: CR 2032

Order no.

## FLUSH-MOUNTED TRANSMITTERS

Radio wall-transmitter insert
black 2764
6 V=
Battery life approx. 3 years;
Radio channels 4;
Radio signal transmission frequency $433,42 \mathrm{MHz}$;
I on page T47 Radio signal transmission power $<10 \mathrm{~mW}$;
Radio signal transmission range (free field)
max. 100 m;
Operating temperature $0-55^{\circ} \mathrm{C}$;
Installation depth 12 mm
Fits in flush-mounted and hollow wall boxes from Kaiser.

For battery-operated radio remote control of all assigned radio bus receivers.

Replacement Lithium coin cell battery see radio bus order no. 1857
For push-buttons order no. 751610 .., 751611 .., 751613 .., 751620 .., 751621 .., 751623 .., 751633 .., 751640 .., 751641 .., 751643 ..

- not dependent on mains power
$\square$ each channel can be allocated to as many radio receivers are required
■ for push-button 1-/2-/3- or 4gang
$\square$ key functions: 4 channel/5 light scenes/central OFF via dip switch adjustable
- transmission indicator LED and battery charge indicator in push-button
- with $2 \times$ lithium coin cell battery 3 V type: CR 2032

■ mounting as flush/surface/table-top radio transm. with built-on installation housing flat design poss
$\square$ without spreader claws


Radio transmitter with phase-conductor flushmounted
grey 012410
$230 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}$
Radio channels 2;
Radio signal transmission frequency $433,42 \mathrm{MHz}$;
I on page T47 Radio signal transmission power < 10 mW ;
Radio signal transmission range (free field)
max. 100 m;
Operating temperature $-20-+55^{\circ} \mathrm{C}$;
Cable length approx. 210 mm ;
Dimensions (diameter xH) $52 \times 23 \mathrm{~mm}$
Neutral conductor necessary!
The radio transmitter flush-mounted permits an existing installation to be upgraded by radio frequency transmission of control commands.

- each channel can be allocated to as many radio receivers are required
$\square$ depending on setting with the function as switch, push-button, dimmer or shutter transmitter
■ 1 or 2-push-button operation concept selectable
$\square$ activation through e.g. series switch, rockers pushbutton, timer, RolloTec insert
- pre-assembled, with cables
- for installation behind flush-mounted inserts

Order no.

## Push-button interfaces

Radio push-button interface 4gang flushmounted
grey 0126

3 V=
Battery life approx. 3 years;
Radio channels max. 4;
I on page T47 Radio signal transmission frequency $433,42 \mathrm{MHz}$;
Radio signal transmission power $<10 \mathrm{~mW}$;
Radio signal transmission range (free field) max. 100 m;
Contact cleaner power pulse current 3 mA ;
Operating temperature $-20-+55^{\circ} \mathrm{C}$;
Cable length approx. 290 mm ;
Extendable cable length max. 5 m ;
Dimensions (diameter $\times H$ ) $38 \times 10 \mathrm{~mm}$
For battery-operated radio remote control of all assigned radio bus receivers.

Replacement Lithium coin cell battery see radio bus order no. 1857

- not dependent on mains power
$\square$ each channel can be allocated to as many radio receivers are required
- functions: 1- and 2-push-button operation for switching and dimming, shutter control, light scenes,
- function setting by 5 DIP-switches

■ with lithium coin cell battery 3 V type: CR 2032
$\square$ with red transmit and battery status LED
$\square$ to connect to max. 4 potential-free contacts
$\square$ with contact cleaner power pulse current for activation

- pre-assembled, with 4 cable pairs and plug
$\square$ for installation behind flush-mounted inserts


## DETECTORS

Radio magnetic contacts
Radio magnetic contact
polar white, matt 94300100
$9 \mathrm{~V}=$
Alkaline battery life approx. 3 years;
Radio channels 1 ;
Radio signal transmission frequency $433,42 \mathrm{MHz}$;
Radio signal transmission power $<10 \mathrm{~mW}$;
Radio signal transmission range (free field)
max. 100 m;
Operating temperature $-5-+45{ }^{\circ} \mathrm{C}$;
Dimensions (L x W x H) $132 \times 36 \times 35 \mathrm{~mm}$
The required Alkaline 9 V block battery (6LR61) is not included.

When the NO contact is open, sends a radio signal to a taught-in radio bus receiver.
Lithium block battery see radio bus / accessories order no. 9209

Window controller according to German Combustion Ordinance (FeuV) §4

- not dependent on mains power
$\square$ the channel can be assigned to any number of radio receivers
- for screw or adhesive fixing
$\square$ with shim to compensate for differences in level
- with fitting material

Order no.
Order no.
Packing

## SIGNAL AMPLIFIERS

## Radio signal amplifiers surface-mounted

polar white, glossy 017709
1
$230 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}$
Radio channels 60;
Radio transmission/reception frequency $433,42 \mathrm{MHz}$;
Radio signal transmission power $<10 \mathrm{~mW}$;
I on page $\mathbf{T} 49$
Radio transmission/reception range(free field) max 100 m;
Mains cable length $1,5 \mathrm{~m}$;
Operating temperature $-20-+55^{\circ} \mathrm{C}$;
Dimensions (W x H x D) $110 \times 94 \times 38 \mathrm{~mm}$
Neutral conductor necessary!
The radio signal amplifier receives and sends out radio signals from taught-in transmitters at maximum transmission power.

■ max. 1 radio signal amplifier per transmission link
$\square$ to increase radio range
$■$ only taught-in radio transmitters are amplified
■ including white mains cable with Euro-plug
■ with red receive and green transmission indicator LED

- with 2 cable entries
- with fitting material
- with screw terminals
unit


## PRESENCE DETECTORS

Radio presence detectors

## Radio presence detector surface-mounted <br> polar white, matt 018209 <br> 1

$6 \mathrm{~V} \sim$
Battery life approx. 3 years;
Radio channels 1;
Radio signal transmission frequency $433,42 \mathrm{MHz}$;
I on page T47
Radio signal transmission power $<10 \mathrm{~mW}$;
Radio signal transmission range (free field)
max. 100 m;
Recommended mounting height approx. $2,5 \mathrm{~m}$;
Detection field on floor approx. diameter 8 m ;
Detection field at desk height approx. diameter 5 m ;
Detection angle $360^{\circ}$;
Detection levels 6;
Sectors 80;
Switching segments 320;
Response sensitivity programmable
approx. 20-100 \% ;
Response brightness adjustable
approx. 10-2000 Lux;
Delay time adjustable approx. 2-60 min. ;
Operating temperature $0-45^{\circ} \mathrm{C}$;
Dimensions (diameter x assembling height)
$103 \times 42 \mathrm{~mm}$
The required batteries $4 \times$ Micro, alkaline (LRO3) are not included.

Only suitable for actuators with imprint release issue „R2" and higher.

■ not dependent on mains power

- for the activation of max. 1 radio receiver

■ energy saving by presence and brightnesscontrolled lighting control
■ constant light control only possible in conjunction with dim actuators or control units

- with covers to limit the detection field
- with fitting material

Order no.
Packing
unit
RADIO CONTROLLERS


Radio controller 180
polar white, glossy 01740109
$9 \mathrm{~V}=$
Alkaline battery life approx. 3 years;
Radio channels 1;
Radio signal transmission frequency $433,42 \mathrm{MHz}$;
I on page T47 Radio signal transmission power < 10 mW :
Radio signal transmission range (free field)
max. 100 m;
Recommended installation height approx. 2,4 m; Range approx. 16 m ;
Detection field semi-circular shaped
approx. $16 \times 32 \mathrm{~m}$;
Detection angle $180^{\circ}$;
Detection levels 3;
Sectors 36;
Switching segments 144 ;
Response brightness sensor < 80 Lux;
Night triggering sensor < 200 Lux;
Response sensitivity programmable
approx. 20-100 \% ;
Operating temperature $-25-+55^{\circ} \mathrm{C}$;
Dimensions (W $\times \mathrm{H} \times \mathrm{D}$ ) $80 \times 75 \times 115 \mathrm{~mm}$
The required Alkaline 9 V block battery (6LR61) is not included.

If response brightness or movement of people is insufficient, it sends a radio signal to the radio controller power pack unit or other radio bus receivers.

Lithium block battery see radio bus / accessories order no. 9209

IP55

- not dependent on mains power
- each channel can be allocated to as many radio receivers are required
- with LED detection and battery charge indicator
- for wall mounting
- rotating and vertically slewing
- with push-on cover to limit the detection field
- with fitting material

Order no.
Packing
unit

## Radio controller power packs

Radio controller power pack surface-mounted
polar white, glossy 017509
230 V , 50/60 Hz
230 V incandescent and halogen lamps 2300 W ; Electronic transformers 1500 W;
Conventional transformers 1000 VA;
I on page T47 Fluorescent lamps in duo configuration 2300 VA ; Fluorescent lamps uncompensated 1200 VA;
Fluorescent lamps parallel compensated 920 VA;
Response brightness approx. 3-80 Lux;
Delay time adjustable approx. 10 sec.- 15 min .;
Radio signal reception frequency $433,42 \mathrm{MHz}$;
Learnable radio transmitters 30 ;
Operating temperature $-25-+55^{\circ} \mathrm{C}$;
Dimensions ( $\mathrm{W} \times \mathrm{H} \times \mathrm{D}$ ) $110 \times 94 \times 38 \mathrm{~mm}$
For electronic ballasts and energy-saving lamps with excessive switch-on currents use making current limiters order no. 0185.

Neutral conductor necessary!
Switches on when a taught-in radio telegram, such as from radio controller system sensors, is received with the minimum response brightness level infringed and people detected.


```
IP55
- with LED detection and mode indicator
- with 3 operating modes guard mode/2 h ON/2 h OFF
- operating mode change by NC push-button in lead or wall-mounted or hand-held radio transm.
- with 2 cable entries at bottom
- with fitting material
- with screw terminals
```

Order no.
Packing
unit

## SWITCH ACTUATORS

## Radio switch actuator built-in

polar white, matt 0125
1
230 V~, $50 / 60 \mathrm{~Hz}$
230 V incandescent and halogen lamps 2300 W ; Electronic transformers 1500 W;
Conventional transformers 1000 VA;
I on page T47 Fluorescent lamps in duo configuration 2300 VA; Fluorescent lamps uncompensated 1200 VA;
Fluorescent lamps parallel compensated 920 VA Radio signal reception frequency $433,42 \mathrm{MHz}$; Learnable radio transmitters 30 ;
Operating temperature $-20-+55^{\circ} \mathrm{C}$;
Dimensions ( $\mathrm{L} \times \mathrm{W} \times \mathrm{H}$ ) $175 \times 42 \times 18 \mathrm{~mm}$
For electronic ballasts and energy-saving lamps with excessive switch-on currents use making current limiters order no. 0185.

Neutral conductor necessary!
For remote controlled switching of electrical loads.
$\mu \mathrm{O}=\square \mathrm{a}$
■ with extension unit input for BLC extension unit and push-but.(NO) and 1 push-but. operation concept

- with 5 light scenes for „on/off"
- retrieving light scenes only by using radio transmitter
- radio signal of taught-in radio controller activates for 1 minute (subsequently triggered)
- with programming button and red programming LED
- programming mode can be activated on device or via extension unit
- with screw terminals

Order no.
Packing
unit


| Radio switch actuator flush-mounted |  |
| :--- | :--- |
| grey | 0179 |

$230 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}$
230 V incandescent and halogen lamps 1000 W ; Electronic transformers 750 W;
Conventional transformers 750 VA;
I on page T47
Fluorescent lamps in duo configuration 1000 VA ; Fluorescent lamps uncompensated 500 VA; Fluorescent lamps parallel compensated 400 VA; Radio signal reception frequency $433,42 \mathrm{MHz}$; Learnable radio transmitters 14;
Operating temperature $-20-+55^{\circ} \mathrm{C}$;
Cable length approx. 210 mm ;
Centre hole diameter $7,5 \mathrm{~mm}$;
Dimensions (diameter $\times \mathrm{H}$ ) $52 \times 23 \mathrm{~mm}$
For electronic ballasts and energy-saving lamps with excessive switch-on currents use making current limiters order no. 0185.

## Neutral conductor necessary!

For remote controlled switching of electrical loads.


■ with 5 light scenes for „on/off"

- retrieving light scenes only by using radio transmitter
- radio signal of taught-in radio controller activates for 1 minute (subsequently triggered)
- potential-free contact for function extra-low voltage FELV (only change-over voltage) suitable
- with programming button and red programming LED
■ built into flush-mounted or splash-protected junction box
- pre-assembled, with cables

Order no.


Radio switch actuator 2gang flush-mounted grey 0129
$230 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}$
Max. switching capacity per channel for $230 \mathrm{~V} \sim$;
230 V incandescent lamps 350 W ;
230 V halogen lamps 300 W ;
Electronic transformers 300 W ;
Conventional transformers 350 VA;
Fluorescent lamps uncompensated 350 VA ;
Radio signal reception frequency $433,42 \mathrm{MHz}$;
Learnable radio transmitters 7 per channel;
Operating temperature $-20-+55^{\circ} \mathrm{C}$;
Cable length approx. 210 mm ;
Centre hole diameter $7,5 \mathrm{~mm}$;
Dimensions (diameter $\times$ H) $52 \times 23 \mathrm{~mm}$
For electronic ballasts and energy-saving lamps with excessive switch-on currents use making current limiters order no. 0185.

Neutral conductor necessary!
For remote controlled switching of electrical loads.


■ with 5 light scenes for „on/off" per channel

- retrieving light scenes only by using radio transmitter
- radio signal of taught-in radio controller activates for 1 minute (subsequently triggered)
- with programming button and two-colour programming LED
- built into flush-mounted or splash-protected junction box
- pre-assembled, with cables



## Radio adapter plug switch actuator

polar white, matt 0178091
$230 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}$
230 V incandescent and halogen lamps 1000 W ; Electronic transformers 750 W;
Conventional transformers 750 VA;
I on page T47 Fluorescent lamps in duo configuration 1000 VA; Fluorescent lamps uncompensated 500 VA ;
Fluorescent lamps parallel compensated 400 VA ;
Radio signal reception frequency $433,42 \mathrm{MHz}$;
Learnable radio transmitters 30 ;
Operating temperature $-20-+55^{\circ} \mathrm{C}$;
Dimensions (W xH x D) $70 \times 136 \times 72 \mathrm{~mm}$;
Assembling height $34,5 \mathrm{~mm}$
For electronic ballasts and energy-saving lamps with excessive switch-on currents use making current limiters order no. 0185.

For remote controlled switching of electrical loads.

## $\mu$ ?

■ with 5 light scenes for „on/off"

- retrieving light scenes only by using radio transmitter
- radio signal of taught-in radio controller activates for 1 minute (subsequently triggered)
- with manual operation on/off
- short-circuit and overload proof (fine-wire fuse)
- with spare fuse

PUSH-BUTTON ACTUATORS


# Radio push-button actuator flush-mounted 

 grey 0179501
230 V ~, 50/60 Hz
Max. contact duration according to transmitter
4-12 sec.;
230 V incandescent and halogen lamps 1000 W ; Electronic transformers 750 W;
Conventional transformers 750 VA;
Fluorescent lamps in duo configuration 1000 VA;
Fluorescent lamps uncompensated 500 VA;
Fluorescent lamps parallel compensated 400 VA ;
Radio signal reception frequency $433,42 \mathrm{MHz}$;
Learnable radio transmitters 14;
Operating temperature $-20-+55^{\circ} \mathrm{C}$;
Cable length approx. 210 mm ;
Centre hole diameter $7,5 \mathrm{~mm}$;
Dimensions (diameter $\times$ H) $52 \times 23 \mathrm{~mm}$
For electronic ballasts and energy-saving lamps with excessive switch-on currents use making current limiters order no. 0185.

Neutral conductor necessary!
For remote controlled button operation of electrical loads.

## $\mu$

- potential-free HVAC contact suitable for function extra-low voltage FELV (only alternating voltage)
- with programming button and red programming LED
- built into flush-mounted or splash-protected junction box
- pre-assembled, with cables


## SHUTTER ACTUATORS



Radio shutter actuator flush-mounted
grey 0127
$230 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}$
Switching power max. 1 motor 700 W ;
Control channels 1 ;
Radio signal reception frequency $433,42 \mathrm{MHz}$;
Learnable radio transmitters 14;
Lamella adjustment with signal < 1 sec.;
Self-sustaining for 2 min. with signal > 1 sec.;
Operating temperature $-20-+55^{\circ} \mathrm{C}$;
Cable length approx. 210 mm ;
Centre hole diameter $7,5 \mathrm{~mm}$;
Dimensions (diameter x H) $52 \times 23 \mathrm{~mm}$
Neutral conductor necessary!
For remote controlled movement of shutters and awnings, for example.

## $\mu$

- with 5 light scenes for „open/close"
- retrieving light scenes only by using radio transmitter
- with electrical interlocking to prevent mutual switch on
- with programming button and two-colour programming LED
■ built into flush-mounted or splash-protected junction box
- pre-assembled, with cables

Order no.
Packing
unit

## DIM ACTUATORS

## Radio universal dimmer flush-mounted

 grey 94550200$230 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}$
230 V incandescent and halogen lamps 50-210 W; Electronic transformers 50-210 W;
Dimmable conventional transformers 50-210 VA;
I on page T47
Tronic or LV power boosters built-in/RMD max. 10 for same load type;
Radio signal reception frequency $433,42 \mathrm{MHz}$;
Learnable radio transmitters 30 ;
Operating temperature $0-55^{\circ} \mathrm{C}$;
Cable length approx. 210 mm ;
Dimensions (diameter $\times \mathrm{H}$ ) $53 \times 28 \mathrm{~mm}$
Trouble-free operation will be obtained only with Berker Tronic transformers.

Suitable for universal booster RMD Plus
Do not connect conventional transformers together with electronic transformers.

For remote controlled switching and dimming of lights.

RLC
IP20
■ with 5 light scenes for „on/off", dimming value
$\square$ retrieving light scenes only by using radio transmitter

- radio signal of taught-in radio controller activates for 1 minute (subsequently triggered)
■ with programming button and red programming LED
- start-up brightness can be stored safe after power failure
$■$ bulb-preserving soft startup
■ short-circuit and overload proof (electronic fuse)
■ phase cut-on or cut-off according to load type, self-learning
■ built into flush-mounted or splash-protected junction box
■ pre-assembled, with cables

Order no.
Packing
unit


Radio universal corded dimmer
black, glossy 0128
$230 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}$
230 V incandescent and halogen lamps 50-315 W; Electronic transformers 50-315 W;
Dimmable conventional transformers 50-315 VA;
I on page T47 Tronic or LV power boosters built-in/RMD max. 10 for same load type;
Radio signal reception frequency $433,42 \mathrm{MHz}$;
Learnable radio transmitters 30 ;
Operating temperature $0-55^{\circ} \mathrm{C}$;
Dimensions (L x W x H) $126 \times 60 \times 28 \mathrm{~mm}$
Trouble-free operation will be obtained only with Berker Tronic transformers.

Do not connect conventional transformers together with electronic transformers.

Neutral conductor required!
For remote controlled switching and dimming of lights.

## $\overrightarrow{R L C}$ O <br> 卫区

■ with 5 light scenes for „on/off", dimming value

- retrieving light scenes only by using radio transmitter
- radio signal of taught-in radio controller activates for 1 minute (subsequently triggered)
- with extension unit input for BLC extension unit 2-area and push-but.(NO) 1-push-but.operation conc.
- with manual operation on/off
- with programming button and red programming LED
- start-up brightness can be stored safe after power failure
■ bulb-preserving soft startup
- short-circuit and overload proof (electronic fuse)
- phase cut-on or cut-off according to load type, self-learning
■ expandable by universal power boosters RMD Plus with load cable switched in parallel
- with screw terminals

Order no.
Order no.
Radio universal dimmer built-in
polar white
$230 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}$
230 V incandescent and halogen lamps 50-315 W; Electronic transformers 50-315 W;
Dimmable conventional transformers 50-315 VA;
1 on page T47
Universal power boosters max. 10 phase cut-off á 500 W;
Universal power boosters max. 5 phase cut-on á 300 VA ;
Tronic or LV power boosters built-in/RMD max. 10 for same load type;
Radio signal reception frequency $433,42 \mathrm{MHz}$;
Learnable radio transmitters 30;
Operating temperature $0-55^{\circ} \mathrm{C}$;
Dimensions (L x W x H) $187 \times 28 \times 28 \mathrm{~mm}$
Trouble-free operation will be obtained only with Berker Tronic transformers.

Do not connect conventional transformers together with electronic transformers.

For remote controlled switching and dimming of lights.

■ with 5 light scenes for „on/off", dimming value
$\square$ retrieving light scenes only by using radio transmitter
$\square$ radio signal of taught-in radio controller activates for 1 minute (subsequently triggered)
$\square$ with extension unit input for BLC extension unit 2-area and push-but.(NO) 1-push-but.operation conc.

- with programming button and red programming LED
- start-up brightness can be stored safe after power failure
■ bulb-preserving soft startup
■ short-circuit and overload proof (electronic fuse)
- phase cut-on or cut-off according to load type, self-learning
■ expandable by universal power boosters RMD Plus with load cable switched in parallel
■ with screw terminals

Radio adapter plug universal dimmer polar white, matt 017810091 230/240 V~, 50/60 Hz
230 V incandescent and halogen lamps 50-420 W; Electronic transformers 50-420 W;
Dimmable conventional transformers 50-420 VA;
I on page T47 Radio signal reception frequency $433,42 \mathrm{MHz}$; Learnable radio transmitters 30;
Operating temperature $5-35^{\circ} \mathrm{C}$;
Dimensions (W x H x D) $70 \times 136 \times 72 \mathrm{~mm}$;
Assembling height $34,5 \mathrm{~mm}$
Trouble-free operation will be obtained only with Berker Tronic transformers.

Do not connect conventional transformers together with electronic transformers.

For remote controlled switching and dimming of lights.
Ruc
1区
$=\boxed{\square}$

■ with 5 light scenes for „on/off", dimming value

- retrieving light scenes only by using radio transmitter
■ radio signal of taught-in radio controller activates for 1 minute (subsequently triggered)
- with manual operation on(initial brightness)/off
- with red receive/programming LED

■ start-up brightness can be stored safe after power failure

- bulb-preserving soft startup

■ short-circuit and overload proof (electronic fuse)
$\square$ phase cut-on or cut-off according to load type, self-learning

Order no.


Order no.
Packing
unit

| Antennas | Antenna for radio receiver RMD <br> black <br> Radio signal reception frequency $433,42 \mathrm{MHz} ;$ <br> Radio reception range (free field) max. $100 \mathrm{~m} ;$ <br> Cable length approx. $2,5 \mathrm{~m} ;$ |
| :--- | :--- |
| Ion page T55 | Dimensions (L x diameter base) $200 \times 30,5 \mathrm{~mm}$ |
|  | For radio receiver RMD order no. 94050100 |

## Switch actuators

Radio switch actuator RMD
light grey 94500100
1
$230 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}$
230 V incandescent and halogen lamps 2300 W;
Electronic transformers 1500 W;
Conventional transformers 1000 VA;
I on page T47 Fluorescent lamps in duo configuration 2300 VA;
Fluorescent lamps uncompensated 1200 VA;
Fluorescent lamps parallel compensated 920 VA;
Learnable radio transmitters 30 ;
Operating temperature $0-+45^{\circ} \mathrm{C}$;
RMD 2 modules;
Dimensions (W x H x D) $36 \times 90 \times 68 \mathrm{~mm}$;
Assembling height as from DIN rail $61,5 \mathrm{~mm}$
For electronic ballasts and energy-saving lamps with excessive switch-on currents use switch-on current limiters order no. 0185.

Neutral conductor necessary!
For remote controlled switching of electrical loads.
For radio receiver RMD order no. 94050100

■ with extension unit input for BLC extension unit and push-but.(NO) and 1 push-but. operation concept

- with 5 light scenes for "on/off"

■ retrieving light scenes only by using radio transmitter

- radio signal of taught-in radio controller activates for 1 minute (subsequently triggered)
- with construction site function on/off
- with programming button and red programming LED
- programming mode can be activated on device or via extension unit
- with screw terminals and plug-in terminals (EIB) for RMD data connection
■ with screw terminals

Order no.
Packing unit

## Radio switch actuator 4gang RMD light grey 94500200 1

230 V~, 50/60 Hz
230 V incandescent and halogen lamps 2300 W ; Electronic transformers 1500 W;
Conventional transformers 1000 VA;
I on page T55 Fluorescent lamps in duo configuration 2300 VA; Fluorescent lamps uncompensated 1200 VA; Fluorescent lamps parallel compensated 920 VA; Learnable radio transmitters 30 per channel; Operating temperature $0-+45^{\circ} \mathrm{C}$;
RMD 4 modules;
Dimensions (W x H x D) $72 \times 90 \times 70 \mathrm{~mm}$;
Assembling height as from DIN rail 63 mm
For electronic ballasts and energy-saving lamps with excessive switch-on currents use switch-on current limiters order no. 0185.

Use only in conjunction with radio receiver RMD.

Neutral conductor necessary!
For remote controlled switching of electrical loads.
For radio receiver RMD order no. 94050100


- for switching e.g. 4 independent loads
- suitable for different external conductors
- with potential-free NO contacts

■ with 5 light scenes for „on/off" per channel

- retrieving light scenes only by using radio transmitter
- radio signal of taught-in radio controller activates for 1 minute (subsequently triggered)
■ with 4 red indicator / programming LED
- with screw terminals and plug-in terminals (EIB) for RMD data connection
- with screw terminals

Order no.
Packing
unit

## Shutter actuators

Radio shutter actuator RMD
light grey 94600100
1
230 V~, 50/60 Hz
Switching power max. 1 motor 700 W ;
Learnable radio transmitters 14;
Lamella adjustment with signal $<1 \mathrm{sec}$.;
I on page T47 Self-sustaining for 2 min . with signal $>1 \mathrm{sec}$.;
With manual operation < 1 Sec. up/stop/down;
Operating temperature $0-+45^{\circ} \mathrm{C}$;
RMD 2 modules;
Dimensions (W x H x D) $36 \times 90 \times 68 \mathrm{~mm}$;
Assembling height as from DIN rail $61,5 \mathrm{~mm}$
Use only in conjunction with radio receiver RMD.

Neutral conductor necessary!

For remote controlled movement of shutters and awnings, for example.
For radio receiver RMD order no. 94050100

## $\mu$

■ with 5 light scenes for „open/close"
$\square$ retrieving light scenes only by using radio transmitter

- with electrical interlocking to prevent mutual switch on
- with construction site function up/down
- with programming button and two-colour programming LED
- with screw terminals and plug-in terminals (EIB) for RMD data connection
- with screw terminals

Order no.

Dim actuators


Radio universal dimmer RMD light grey $94550100 \quad 1$ $230 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}$
230 V incandescent and halogen lamps $50-400 \mathrm{~W}$; Electronic transformers 50-400 W;
Dimmable conventional transformers 50-400 VA;
II on page T47
Packing
unit

Universal power boosters max. 10 phase cut-off á 500 W;
Universal power boosters max. 5 phase cut-on á 420 VA ;
Power boosters built-in/RMD max. 10 for same load type;
Learnable radio transmitters 30 ;
With manual operation $<1 \mathrm{Sec}$. on/off;
Operating temperature $0-45{ }^{\circ} \mathrm{C}$;
RMD 4 modules;
Dimensions (W x H x D) $73 \times 90 \times 68 \mathrm{~mm}$; Assembling height as from DIN rail $61,5 \mathrm{~mm}$

Trouble-free operation only with Berker Tronic transformers.

Use only in conjunction with radio receiver RMD.
Do not connect conventional transformers together with electronic transformers.

For remote controlled switching and dimming of lights.

For radio receiver RMD order no. 94050100
Ricl -
■ with 5 light scenes for „on/off", dimming value
■ retrieving light scenes only by using radio transmitter

- radio signal of taught-in radio controller activates for 1 minute (subsequently triggered)
- with extension unit input for BLC extension unit and push-but.(NO) and 1 push-but. operation concept
- with construction site function on/off

■ with programming button and red programming LED
■ start-up brightness can be stored safe after power failure
■ bulb-preserving soft startup
■ short-circuit and overload proof (electronic fuse)

- phase cut-on or cut-off according to load type, self-learning
■ expandable by universal power boosters RMD Plus with load cable switched in parallel
$\square$ with screw terminals and plug-in terminals (EIB) for RMD data connection
■ with screw terminals

Order no.
Packing
unit

## Control units 1-10 V



Radio control unit 1-10 V RMD light grey 94650100 1
230 V~, 50/60 Hz
Control current 15 mA ;
Switching current 8 A;
Learnable radio transmitters 30 ;
I on page T47 With manual operation $<1 \mathrm{Sec}$. on/off; Operating temperature $0-45^{\circ} \mathrm{C}$;
RMD 4 modules;
Dimensions (W $\times \mathrm{H} \times \mathrm{D}$ ) $73 \times 90 \times 68 \mathrm{~mm}$;
Assembling height as from DIN rail $61,5 \mathrm{~mm}$
In case of excessive making currents use making current limiters order no. 0185.

Ensure same illumination, use only electronic ballasts and fluorescent lamps from the same manufacturers.

When using of LV halogen lamps we recommend Berker Tronic transformer with 1-10 V interface order no. 2977.

Neutral conductor necessary!
Use only in conjunction with radio receiver RMD.
For remote controlled switching and dimming of lights.

For radio receiver RMD order no. 94050100
Interface to DIN EN 60928

- for switching and controlling electronic ballasts and Tronic transformers with 1-10 V interface
■ e.g. for fluorescent lamps and LV halogen lamps
■ with 5 light scenes for „on/off", dimming value
- retrieving light scenes only by using radio transmitter
■ radio signal of taught-in radio controller activates for 1 minute (subsequently triggered)
■ with manual operation on/off
- with programming button and red programming LED
- start-up brightness can be stored safe after power failure
- with screw terminals and plug-in terminals (EIB) for RMD data connection
■ with screw terminals


## ACCESSORIES

Lithium coin cell battery $3 \mathbf{V}$

$3 \mathrm{~V}=, 0,18 \mathrm{Ah}$

■ type: CR 2032
■ 2 pcs. for replacement


## Lithium block battery 9 V

9209
1
$9 \mathrm{~V}=, 1,2 \mathrm{Ah}$

- for replacement need

Order no.
Order no.
Packing
unit

## BLC BERKER LIGHT CONTROL

Radio buttons


BLC radio button
white, glossy 1760021
polar white, glossy 1760091

Radio signal reception frequency $433,42 \mathrm{MHz}$;
Learnable radio transmitters 30
1 on page T12 Extension unit operation with BLC extension unit and push-button (NO) possible as of release R2.1.

For actuation via button and radio transmitter.
For BLC universal touch dimmer order no. 2902 For BLC touch control unit 1-10 V order no. 2903
For BLC touch dimmer LV order no. 2904
For BLC triac switch insert LV order no. 2905
For BLC relay switch insert order no. 2906
For BLC relay switch insert with potential-free contact order no. 290610
For BLC relay switch insert HVAC order no. 2912
For BLC Tronic switch insert order no. 2916

- with 2-push-buttons operation concept

■ with 5 light scenes for „on/off", dimming value
■ retrieving light scenes only by using radio transmitter
$\square$ radio signal of taught-in radio controller activates for 1 minute (subsequently triggered)

- switch-on brightness for BLC dimmer insert mainsfailure protection storable
- reset function (to factory setting)


## ROLLOTEC



I on page T37

## RolloTec radio button

| white, glossy | $\mathbf{1 7 5 8 1 2}$ | 1 |
| :--- | :--- | :--- |
| polar white, glossy | 175849 | 1 |

Radio signal reception frequency $433,42 \mathrm{MHz}$;
Learnable radio transmitters 30 ;
Lamella adjustment with signal < 1 sec .;
Self-sustaining for 2 min. with signal $>1 \mathrm{sec}$.

For actuation via button and radio transmitter.
For RolloTec standard insert without neutral conductor connection order no. 2911
For RolloTec standard insert order no. 2925
For Rollotec comfort insert order no. 2975
For RolloTec comfort insert for direct current drives order no. 297501

■ with 5 light scenes for „open/close"

- retrieving light scenes only by using radio transmitter


I on page T37

RolloTec radio button with sensor connection

| white, glossy | 175912 | 1 |
| :--- | :--- | :--- |
| polar white, glossy | 175949 | 1 | polar white, glossy 1759491

Radio signal reception frequency $433,42 \mathrm{MHz}$; Learnable radio transmitters 30;
Brightness value sun approx. 5-80 kLux;
Lamella adjustment with signal < 1 sec.;
Self-sustaining for 2 min . with signal $>1 \mathrm{sec}$.
For actuation via button and radio transmitter.
For RolloTec brightness sensors order no. 0169, 0184
For RolloTec glass breakage sensor order no. 0170
For RolloTec adapter for sensors order no. 0171
For RolloTec standard insert without neutral conductor connection order no. 2911
For RolloTec standard insert order no. 2925
For Rollotec comfort insert order no. 2975
For RolloTec comfort insert for direct current drives order no. 297501
For magnetic contact order no. 9251 ..

■ with 5 light scenes for „open/close"
$\square$ retrieving light scenes only by using radio transmitter

- brightness value for sunblind individually adjustable
- no twilight sensor function
- only for sensor connection to terminal block

Order no.


## Radio controller 180 flat

| white | 942002 | 1 |
| :--- | :--- | :--- |
| polar white | 942009 | 1 |

$3 \mathrm{~V}=$
Battery life approx. 3 years;
Radio channels 1;
I on page T47 Radio signal transmission frequency $433,42 \mathrm{MHz}$;
Radio signal transmission power < 10 mW ;
Radio signal transmission range (free field)
max. 60 m ;
Nominal mounting height $1,1 \mathrm{~m}$;
Range frontal approx. 10 m ;
Range lateral each approx. 6 m ;
Detection field semi-oval shaped approx. $10 \times 12 \mathrm{~m}$;
Detection angle $180^{\circ}$;
Detection levels 2;
Switching segments 72 ;
Response sensitivity programmable approx. 20-100 \% ;
Response brightness adjustable approx. 0-80/
unlimited Lux;
Dimensions assembling height $23,5 \mathrm{~mm}$
Direct sunlight penetration the upward-pointing detection plane results in failure of the movement controller. Only suitable for interiors!

If response brightness or movement of people is insufficient, it sends a radio signal to the radio controller power pack unit or other radio bus receivers.

■ not dependent on mains power
$\square$ the channel can be assigned to any number of radio receivers
$\square$ with red transmit and battery status LED
■ with a lithium coin cell battery 3 V type: CR 2450
$\square$ with cover to limit detection angle to $90^{\circ}$

- installation with frames on even surface e.g. also for extention of combinations
$\square$ with fitting material, screws, wall plugs and adhesive pad
■ screw fastening via supporting plate possible
942009 1

```


I on page T47
Battery life approx. 3 years;
I on page T47 Radio channels 1 .
Radio signal transmission frequency \(433,42 \mathrm{MHz}\);
Radio signal transmission power < 10 mW ;
Radio signal transmission range (free field)
max. 100 m

Replacement Lithium coin cell battery see radio bus order no. 1857
- not dependent on mains power
- each channel can be allocated to as many radio receivers are required
■ key functions: 1 channel/1 light scene/central OFF via dip switch adjustable
■ changing of light scenes via DIP switch lockable
- with red transmit and battery status LED

■ with lithium coin cell battery 3 V type: CR 2032
■ installation with frames on even surface e.g. also for extention of combinations
- with fitting material, screws, wall plugs and adhesive pad
■ screw fastening via supporting plate possible


\section*{Radio wall-transmitter 2gang flat} with labelling field
white, glossy 272202
polar white, glossy 272209
\(3 \mathrm{~V}=\)
Battery life approx. 3 years;
I on page T47
Radio channels 2;
Radio signal transmission frequency \(433,42 \mathrm{MHz}\);
Radio signal transmission power < 10 mW ;
Radio signal transmission range (free field)
max. 100 m

Replacement Lithium coin cell battery see radio bus order no. 1857

■ not dependent on mains power
- each channel can be allocated to as many radio receivers are required
■ key functions: 2 channel/3 light scenes/central OFF via dip switch adjustable
■ changing of light scenes via DIP switch lockable
- with red transmit and battery status LED

■ with lithium coin cell battery 3 V type: CR 2032
■ installation with frames on even surface e.g. also for extention of combinations
- with fitting material, screws, wall plugs and adhesive pad
■ screw fastening via supporting plate possible

Order no.


Radio wall-transmitter 4gang flat with labelling field
white, glossy 2724021 polar white, glossy 2724091
\(3 \mathrm{~V}=\)
Battery life approx. 3 years;
I on page T47
Radio channels 4;
Radio signal transmission frequency \(433,42 \mathrm{MHz}\);
Radio signal transmission power \(<10 \mathrm{~mW}\);
Radio signal transmission range (free field) max. 100 m

Replacement Lithium coin cell battery see radio bus order no. 1857

■ not dependent on mains power
\(\square\) each channel can be allocated to as many radio receivers are required
■ key functions: 4 channel/5 light scenes/central OFF via dip switch adjustable
- changing of light scenes via DIP switch lockable
- with red transmit and battery status LED
- with lithium coin cell battery 3 V type: CR 2032
- installation with frames on even surface e.g. also for extention of combinations
■ with fitting material, screws, wall plugs and adhesive pad
- screw fastening via supporting plate possible

\section*{PUSH-BUTTONS}

Push-buttons with labelling field
\begin{tabular}{lll} 
& \multicolumn{2}{l}{ Push-button 1gang with labelling field } \\
white, glossy & 75161012 & 1 \\
polar white, glossy & 75161019 & 1 \\
Operating temperature \(-5-+45^{\circ} \mathrm{C}\) & \\
& & \\
& For radio wall-transmitter insert order no. 2764
\end{tabular}
- with anti-dismantling protection
- with red transmit and battery status LED


\section*{Push-button 2gang with labelling field}
white, glossy 75162012
polar white, glossy \(\quad 751620191\)
Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\)

For radio wall-transmitter insert order no. 2764
- with anti-dismantling protection
\(\square\) with 2 red transmit and battery status LEDs


\section*{Push-button 4gang with labelling field}
white, glossy
75164012
polar white, glossy \(\quad 751640191\)
Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\)
For radio wall-transmitter insert order no. 2764
- with anti-dismantling protection
\(\square\) with 4 red transmit and battery status LEDs

Order no.
Packing
unit

\section*{Push-buttons}

Push-button 1gang
white, glossy 75161112
1
polar white, glossy \(\quad 75161119\)
1
Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\)

For radio wall-transmitter insert order no. 2764
- with anti-dismantling protection


\section*{Push-button 2gang}
\begin{tabular}{lrl} 
white, glossy & 75162112 & 1 \\
polar white, glossy & \(\mathbf{7 5 1 6} 2119\) & 1 \\
Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\) &
\end{tabular}

Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\)
For radio wall-transmitter insert order no. 2764

■ with anti-dismantling protection


\section*{Push-button 4gang}
\begin{tabular}{lrl} 
white, glossy & \(\mathbf{7 5 1 6 4 1 1 2}\) & 1 \\
polar white, glossy & \(\mathbf{7 5 1 6 4 1 1 9}\) & 1 \\
Operating temperature & \(-5-+45{ }^{\circ} \mathrm{C}\) & \\
& & \\
& &
\end{tabular}

For radio wall-transmitter insert order no. 2764
- with anti-dismantling protection

\section*{Built-on installation housings}

\begin{tabular}{lcc} 
Built-on installation housing 1gang flat design \\
white & \(\mathbf{1 0 0 2 0 0 0 2}\) & 1 \\
polar white & \(\mathbf{1 0 0 2 0 0 6 9}\) & 1
\end{tabular}

Height 16 mm

I on page T51 For radio wall-transmitter insert order no. 2764

■ for radio wall-transmitter insert on surface mounted and as table-top radio transmitter
- with double-sided adhesive pads e.g. for mounting on panes of glass

Order no.
Packing
unit


1 on page T12
BLC radio button
white, glossy
polar white, glossy
polar white, matt
anthracite, matt
aluminium, matt
Radio signal reception frequency \(433,42 \mathrm{MHz}\);

Learnable radio transmitters 30

Extension unit operation with BLC extension unit and push-button (NO) possible as of release R2.1.

For actuation via button and radio transmitter.
For BLC universal touch dimmer order no. 2902
For BLC touch control unit 1-10 V order no. 2903
For BLC touch dimmer LV order no. 2904
For BLC triac switch insert LV order no. 2905
For BLC relay switch insert order no. 2906
For BLC relay switch insert with potential-free contact order no. 290610
For BLC relay switch insert HVAC order no. 2912
For BLC Tronic switch insert order no. 2916

■ with 2-push-buttons operation concept
■ with 5 light scenes for „on/off", dimming value
■ retrieving light scenes only by using radio transmitter
- radio signal of taught-in radio controller activates for 1 minute (subsequently triggered)
■ switch-on brightness for BLC dimmer insert mainsfailure protection storable
- reset function (to factory setting)

\section*{ROLLOTEC}


I on page T37

\section*{RolloTec radio button}
\begin{tabular}{lll} 
white, glossy & \(\mathbf{1 7 5 8 8 9 8 2}\) & 1 \\
polar white, glossy & \(\mathbf{1 7 5 8} \mathbf{8 9} \mathbf{8 9}\) & 1 \\
polar white, matt & \(\mathbf{1 7 5 8 1 9 0 9}\) & 1 \\
anthracite, matt & \(\mathbf{1 7 5 8 1 6 0 6}\) & 1 \\
aluminium, matt & \(\mathbf{1 7 5 8 1 4 0 4}\) & 1
\end{tabular}

Radio signal reception frequency \(433,42 \mathrm{MHz}\); Learnable radio transmitters 30 ;
Lamella adjustment with signal < 1 sec .; Self-sustaining for 2 min . with signal \(>1 \mathrm{sec}\).

For actuation via button and radio transmitter.
For RolloTec standard insert without neutral
conductor connection order no. 2911
For RolloTec standard insert order no. 2925
For Rollotec comfort insert order no. 2975
For RolloTec comfort insert for direct current drives order no. 297501

■ with 5 light scenes for „open/close"
■ retrieving light scenes only by using radio transmitter

Order no.
Packing
unit


I on page T37
RolloTec radio button with sensor connection
\begin{tabular}{lll} 
white, glossy & \(\mathbf{1 7 5 9} \mathbf{8 9} \mathbf{8 2}\) & 1 \\
polar white, glossy & \(\mathbf{1 7 5 9} \mathbf{8 9} \mathbf{8 9}\) & 1 \\
polar white, matt & \(\mathbf{1 7 5 9 1 9 0 9}\) & 1 \\
anthracite, matt & \(\mathbf{1 7 5 9 1 6 0 6}\) & 1 \\
aluminium, matt & \(\mathbf{1 7 5 9 1 4 0 4}\) & 1
\end{tabular}

Radio signal reception frequency \(433,42 \mathrm{MHz}\); Learnable radio transmitters 30 ;
Brightness value sun approx. 5-80 kLux;
Lamella adjustment with signal < 1 sec .;
Self-sustaining for 2 min . with signal > 1 sec .
For actuation via button and radio transmitter.
For RolloTec brightness sensors order no. 0169, 0184 For RolloTec glass breakage sensor order no. 0170 For RolloTec adapter for sensors order no. 0171
For RolloTec standard insert without neutral conductor connection order no. 2911
For RolloTec standard insert order no. 2925
For Rollotec comfort insert order no. 2975
For RolloTec comfort insert for direct current drives order no. 297501
For magnetic contact order no. 9251 .

■ with 5 light scenes for „open/close"
- retrieving light scenes only by using radio transmitter
■ brightness value for sunblind individually adjustable
■ no twilight sensor function
\(\square\) for sensor connection to socket contact or terminal block

Order no.

\section*{CONTROLLERS}


I on page T47
Radio controller 180 flat
\begin{tabular}{lll} 
white, glossy & \(\mathbf{9 4 2 0 8 9 8 2}\) & 1 \\
polar white, glossy & \(\mathbf{9 4 2 0 8 9 8 9}\) & 1 \\
polar white, matt & \(\mathbf{9 4 2 0 1 9 0 9}\) & 1 \\
anthracite, matt & \(\mathbf{9 4 2 0 1 6 0 6}\) & 1 \\
aluminium, matt & \(\mathbf{9 4 2 0 1 4 0 4}\) & 1
\end{tabular}
\(3 \mathrm{~V}=\)

Battery life approx. 3 years;
Radio channels 1;
Radio signal transmission frequency \(433,42 \mathrm{MHz}\);
Radio signal transmission power < 10 mW ;
Radio signal transmission range (free field)
max. 60 m;
Nominal mounting height \(1,1 \mathrm{~m}\);
Range frontal approx. 10 m ;
Range lateral each approx. 6 m;
Detection field semi-oval shaped approx. \(10 \times 12 \mathrm{~m}\);
Detection angle \(180^{\circ}\);
Detection levels 2;
Switching segments 72 ;
Response sensitivity programmable
approx. 20-100\%;
Response brightness adjustable approx. 0-80/
unlimited Lux;
Dimensions assembling height \(23,5 \mathrm{~mm}\)
Direct sunlight penetration the upward-pointing detection plane results in failure of the movement controller. Only suitable for interiors!

If response brightness or movement of people is insufficient, it sends a radio signal to the radio controller power pack unit or other radio bus receivers.

Sight shielding film for backside e.g. installation on glass see accessories order no. 949802 02, 949827 30, 94982802
- not dependent on mains power
- the channel can be assigned to any number of radio receivers
- with red transmit and battery status LED
- with a lithium coin cell battery 3 V type: CR 2450
- with cover to limit detection angle to \(90^{\circ}\)
- installation with frames on even surface e.g. also for extention of combinations
- with fitting material, screws, wall plugs and adhesive pad
■ screw fastening via supporting plate possible

Order no.

\section*{WALL-TRANSMITTERS}


Radio wall-transmitter 1gang flat with labelling field
for white and polar white 272110091
for anthracite and 27211006
aluminium
\(3 \mathrm{~V}=\)
Battery life approx. 3 years;
Radio channels 1;
Radio signal transmission frequency \(433,42 \mathrm{MHz}\);
Radio signal transmission power < 10 mW ;
Radio signal transmission range (free field) max. 100 m;
Labelling field length (W x H) 52,3 x 52,3 mm

Replacement Lithium coin cell battery see radio bus order no. 1857
Sight shielding film for backside e.g. installation on glass see accessories order no. 949802 02,
949827 30, 94982802
- not dependent on mains power
- each channel can be allocated to as many radio receivers are required
- key functions: 1 channel/1 light scene/central OFF via dip switch adjustable
■ changing of light scenes via DIP switch lockable
- with red transmit and battery status LED
- with lithium coin cell battery 3 V type: CR 2032
- installation with frames on even surface e.g. also for extention of combinations
\(\square\) with fitting material, screws, wall plugs and adhesive pad
- screw fastening via supporting plate possible


\section*{Radio wall-transmitter 2gang flat} with labelling field
for white and polar white 272210091
for anthracite and 27221006
aluminium
3 V=
Battery life approx. 3 years;
Radio channels 2;
Radio signal transmission frequency \(433,42 \mathrm{MHz}\);
Radio signal transmission power \(<10 \mathrm{~mW}\);
Radio signal transmission range (free field)
max. 100 m;
Labelling field length (W x H) 52,3 x 24,9 mm

Replacement Lithium coin cell battery see radio bus order no. 1857
Sight shielding film for backside e.g. installation on glass see accessories order no. 949802 02,
949827 30, 94982802
- not dependent on mains power
\(\square\) each channel can be allocated to as many radio receivers are required
■ key functions: 2 channel/3 light scenes/central OFF via dip switch adjustable
■ changing of light scenes via DIP switch lockable
- with red transmit and battery status LED
- with lithium coin cell battery 3 V type: CR 2032
\(\square\) installation with frames on even surface e.g. also for extention of combinations
\(\square\) with fitting material, screws, wall plugs and adhesive pad
■ screw fastening via supporting plate possible

Order no.
Packing
Order no.
Packing
unit


I on page T47
Radio wall-transmitter 2gang flat with labelling field
polar white, matt \#2722 19091
anthracite, matt \#2722 1606
aluminium, matt \#2722 1404
1
\(3 \mathrm{~V}=\)
Battery life approx. 3 years;
Radio channels 2;
Radio signal transmission frequency \(433,42 \mathrm{MHz}\);
Radio signal transmission power \(<10 \mathrm{~mW}\);
Radio signal transmission range (free field) max. 100 m

Replacement Lithium coin cell battery see radio bus order no. 1857
Sight shielding film for backside e.g. installation
on glass see accessories order no. 94980202 ,
949827 30, 94982802
- not dependent on mains power
- each channel can be allocated to as many radio receivers are required
- key functions: 2 channel/3 light scenes/central OFF via dip switch adjustable
- changing of light scenes via DIP switch lockable
- with red transmit and battery status LED
- with lithium coin cell battery 3 V type: CR 2032
- installation with frames on even surface e.g. also for extention of combinations
- with fitting material, screws, wall plugs and adhesive pad
- screw fastening via supporting plate possible


Radio wall-transmitter 4gang flat with labelling field
polar white, matt \#2724 19091
anthracite, matt \#2724 1606
aluminium, matt \#2724 1404
\(3 \mathrm{~V}=\)
Battery life approx. 3 years;
Radio channels 4;
Radio signal transmission frequency \(433,42 \mathrm{MHz}\);
Radio signal transmission power < 10 mW ;
Radio signal transmission range (free field)
max. 100 m

Replacement Lithium coin cell battery see radio bus order no. 1857
Sight shielding film for backside e.g. installation on glass see accessories order no. 949802 02,
949827 30, 94982802
- not dependent on mains power
\(■\) each channel can be allocated to as many radio receivers are required
■ key functions: 4 channel/5 light scenes/central OFF via dip switch adjustable
- changing of light scenes via DIP switch lockable
\(\square\) with red transmit and battery status LED
■ with lithium coin cell battery 3 V type: CR 2032
■ installation with frames on even surface e.g. also for extention of combinations
- with fitting material, screws, wall plugs and adhesive pad
- screw fastening via supporting plate possible

Order no.
Packing

\section*{PUSH-BUTTONS}

Push-buttons with labelling field
\begin{tabular}{|l|ll|}
\hline \multicolumn{3}{l}{ Push-button 1gang with labelling field } \\
for white and polar white & \(\mathbf{7 5 1 6} \mathbf{1 3 8 0}\) & 1 \\
for anthracite and & \(\mathbf{7 5 1 6 1 3 8 5}\) & 1
\end{tabular}
aluminium
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
Labelling field length (W x H) 52,3 x 52,3 mm

For radio wall-transmitter insert order no. 2764
- with anti-dismantling protection
\(\square\) with 2 red transmit and battery status LEDs


Push-button 2gang with labelling field
for white and polar white \(75162380 \quad 1\)
for anthracite and 751623851 aluminium
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
Labelling field length \((W \times H) 52,3 \times 24,9 \mathrm{~mm}\)
For radio wall-transmitter insert order no. 2764
- with anti-dismantling protection
- with 4 red transmit and battery status LEDs


Push-button 3gang with labelling field
for white and polar white \(75163380 \quad 1\)
for anthracite and 751633851 aluminium

Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
Labelling field length \((W \times H) 52,3 \times 15,6 \mathrm{~mm}\)
For radio wall-transmitter insert order no. 2764
- with anti-dismantling protection
- with 6 red transmit and battery status LEDs

\section*{Push-button 4gang with labelling field \\ for white and polar white \(75164380 \quad 1\) \\ for anthracite and \(75164385 \quad 1\)}
aluminium
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
Labelling field length \((W \times H) 52,3 \times 24,9 \mathrm{~mm}\)
Only for flush-mounted installation.
For radio wall-transmitter insert order no. 2764
- only for frame with large cut-out
- with anti-dismantling protection
- with 8 red transmit and battery status LEDs


\section*{Push-button 1gang with labelling field}
polar white, matt \#7516 \(1089 \quad 1\)
anthracite, matt \#7516 1085 1
aluminium, matt \#7516 1083 1
Operating temperature \(-5-+45^{\circ} \mathrm{C}\)
For radio wall-transmitter insert order no. 2764
- with anti-dismantling protection
- with red transmit and battery status LED

\section*{Built-on installation housings}


\section*{Built-on installation housing 1gang flat design, \\ S. 1}
polar white, matt \(\quad 10079909\)
1
Height 16 mm

I on page T51
For radio wall-transmitter insert order no. 2764

■ for radio wall-transmitter insert on surface mounted and as table-top radio transmitter
\(■\) with double-sided adhesive pads e.g. for mounting on panes of glass


Built-on installation housing 1gang flat design, B.1/B. 3
polar white, matt 100719091
anthracite, matt 100716061
aluminium, matt 10071404
Height 16 mm
1 on page T51

For radio wall-transmitter insert order no. 2764
- for radio wall-transmitter insert on surface mounted and as table-top radio transmitter
\(\square\) with double-sided adhesive pads e.g. for mounting on panes of glass

\section*{ACCESSORIES}

\section*{Adhesive foil for radio wall-transmitters} and controllers, flat
polar white, for S. \(1 \quad 949802021\)
black, for B.1/B. \(3 \quad 949827301\)
polar white, for B. 7 Glas 949828021

The adhesive foil attaches to the frame and when installed on glass or any other transparent base it provides a closed backing surface.
To attain an even adhesive surface, it is recommended to flatten the adhesive foil for application 24 hours before installing the wall-transmitter / controller.

■ as sight shielding on backside (e.g. when mounting on glass)

Order no.
Order no.
Packing
unit

\section*{BLC BERKER LIGHT CONTROL}

Radio buttons

\section*{BLC radio button}
polar white, velvety \(17606089 \quad 1\)
Radio signal reception frequency \(433,42 \mathrm{MHz}\);
Learnable radio transmitters 30
Extension unit operation with BLC extension unit and
I on page T12 push-button (NO) possible as of release R2.1.

For actuation via button and radio transmitter.
For BLC universal touch dimmer order no. 2902
For BLC touch control unit 1-10 V order no. 2903
For BLC touch dimmer LV order no. 2904
For BLC triac switch insert LV order no. 2905
For BLC relay switch insert order no. 2906
For BLC relay switch insert with potential-free contact order no. 290610
For BLC relay switch insert HVAC order no. 2912
For BLC Tronic switch insert order no. 2916
- with 2-push-buttons operation concept
- with 5 light scenes for „on/off", dimming value
- retrieving light scenes only by using radio transmitter
- radio signal of taught-in radio controller activates for 1 minute (subsequently triggered)
- switch-on brightness for BLC dimmer insert mainsfailure protection storable
- reset function (to factory setting)

ROLLOTEC

\section*{RolloTec radio button}
polar white, velvety 17586089
Radio signal reception frequency \(433,42 \mathrm{MHz}\);
Learnable radio transmitters 30 ;
Lamella adjustment with signal \(<1 \mathrm{sec}\).;
Self-sustaining for 2 min . with signal > 1 sec .
For actuation via button and radio transmitter.
For RolloTec standard insert without neutral conductor connection order no. 2911
For RolloTec standard insert order no. 2925
For Rollotec comfort insert order no. 2975
For RolloTec comfort insert for direct current drives mitter
order no. 297501
- with 5 light scenes for „open/close"
- retrieving light scenes only by using radio trans-

\section*{RolloTec radio button with sensor connection polar white, velvety \(17596089 \quad 1\)}

Radio signal reception frequency \(433,42 \mathrm{MHz}\); Learnable radio transmitters 30;
Brightness value sun approx. 5-80 kLux;
Lamella adjustment with signal < 1 sec.;
Self-sustaining for 2 min . with signal > 1 sec .
For actuation via button and radio transmitter.
For RolloTec brightness sensors order no. 0169, 0184
For RolloTec glass breakage sensor order no. 0170 For RolloTec adapter for sensors order no. 0171
For RolloTec standard insert without neutral conductor connection order no. 2911
For RolloTec standard insert order no. 2925
For Rollotec comfort insert order no. 2975
For RolloTec comfort insert for direct current drives order no. 297501

For magnetic contact order no. 9251 ..
- with 5 light scenes for „open/close"

■ retrieving light scenes only by using radio transmitter
- brightness value for sunblind individually adjustable
- no twilight sensor function
- only for sensor connection to terminal block
\(\square\)

1 on page T37

Order no.


Radio controller 180 flat
polar white, velvety 94206089
1
3 V=
Battery life approx. 3 years;
Radio channels 1;
Radio signal transmission frequency \(433,42 \mathrm{MHz}\);
I on page T47
Radio signal transmission power \(<10 \mathrm{~mW}\);
Radio signal transmission range (free field) max. 60 m;
Nominal mounting height \(1,1 \mathrm{~m}\);
Range frontal approx. 10 m;
Range lateral each approx. 6 m ;
Detection field semi-oval shaped approx. \(10 \times 12 \mathrm{~m}\);
Detection angle \(180^{\circ}\);
Detection levels 2;
Switching segments 72;
Response sensitivity programmable
approx. 20-100 \% ;
Response brightness adjustable approx. 0-80 / unlimited Lux;
Dimensions assembling height \(23,5 \mathrm{~mm}\)
Direct sunlight penetration the upward-pointing detection plane results in failure of the movement controller. Only suitable for interiors!

If response brightness or movement of people is insufficient, it sends a radio signal to the radio controller power pack unit or other radio bus receivers.

Sight shielding film for backside e.g. installation on glass see accessories order no. 949811 ..
- not dependent on mains power
\(\square\) the channel can be assigned to any number of radio receivers
■ with red transmit and battery status LED
■ with a lithium coin cell battery 3 V type: CR 2450
\(\square\) with cover to limit detection angle to \(90^{\circ}\)
■ installation with frames on even surface e.g. also for extention of combinations
\(\square\) with fitting material, screws, wall plugs and adhesive pad
■ screw fastening via supporting plate possible

Order no.
\begin{tabular}{|c|c|}
\hline & Order no. \(\begin{array}{r}\text { Packing } \\ \text { unit }\end{array}\) \\
\hline \multicolumn{2}{|l|}{WALL-TRANSMITTERS} \\
\hline & \begin{tabular}{l}
Radio wall-transmitter 1gang flat with labelling field polar white, velvety 27216089
\[
3 \mathrm{~V}=
\] \\
Battery life approx. 3 years; \\
Radio channels 1;
\end{tabular} \\
\hline I on page T47 & \begin{tabular}{l}
Radio signal transmission frequency \(433,42 \mathrm{MHz}\); \\
Radio signal transmission power < 10 mW ; \\
Radio signal transmission range (free field) \\
max. 100 m; \\
Labelling field length \((\mathrm{W} \times \mathrm{H}) 52,3 \times 52,3 \mathrm{~mm}\)
\end{tabular} \\
\hline & \begin{tabular}{l}
Replacement Lithium coin cell battery see radio bus order no. 1857 \\
Sight shielding film for backside e.g. installation on glass see accessories order no. 949811 ..
\end{tabular} \\
\hline & \begin{tabular}{l}
- not dependent on mains power \\
■ each channel can be allocated to as many radio receivers are required \\
■ key functions: 1 channel/1 light scene/central OFF via dip switch adjustable \\
■ changing of light scenes via DIP switch lockable \\
■ with red transmit and battery status LED \\
■ with lithium coin cell battery 3 V type: CR 2032 \\
- installation with frames on even surface e.g. also for extention of combinations \\
- with fitting material, screws, wall plugs and adhesive pad \\
■ screw fastening via supporting plate possible
\end{tabular} \\
\hline
\end{tabular}


Radio wall-transmitter 2gang flat with labelling field
polar white, velvety 272260891
\(3 \mathrm{~V}=\)
Battery life approx. 3 years;
Radio channels 2;
I on page T47 Radio signal transmission frequency \(433,42 \mathrm{MHz}\);
Radio signal transmission power \(<10 \mathrm{~mW}\);
Radio signal transmission range (free field)
max. 100 m;
Labelling field length (W x H) 52,3 x 24,9 mm

Replacement Lithium coin cell battery see radio bus order no. 1857
Sight shielding film for backside e.g. installation on glass see accessories order no. 949811 ..

■ not dependent on mains power
■ each channel can be allocated to as many radio receivers are required
■ key functions: 2 channel/3 light scenes/central OFF via dip switch adjustable
- changing of light scenes via DIP switch lockable

■ with red transmit and battery status LED
■ with lithium coin cell battery 3 V type: CR 2032
- installation with frames on even surface e.g. also for extention of combinations
■ with fitting material, screws, wall plugs and adhesive pad
■ screw fastening via supporting plate possible

Order no.


Radio wall-transmitter 3gang flat with labelling field
polar white, velvety 272360891
\(3 \mathrm{~V}=\)
Battery life approx. 3 years;
Radio channels 3;
I on page T47 Radio signal transmission frequency \(433,42 \mathrm{MHz}\);
Radio signal transmission power \(<10 \mathrm{~mW}\);
Radio signal transmission range (free field)
max. 100 m;
Labelling field length \((\mathrm{W} \times \mathrm{H}) 52,3 \times 15,6 \mathrm{~mm}\)

Replacement Lithium coin cell battery see radio bus order no. 1857
Sight shielding film for backside e.g. installation on glass see accessories order no. 949811 ..
- not dependent on mains power
- each channel can be allocated to as many radio receivers are required
key functions: 3 channel/5 light scenes/central OFF via dip switch adjustable
- changing of light scenes via DIP switch lockable

■ with red transmit and battery status LED
■ with lithium coin cell battery 3 V type: CR 2032
\(\square\) installation with frames on even surface e.g. also for extention of combinations
with fitting material, screws, wall plugs and adhesive pad
- screw fastening via supporting plate possible

Adhesive foil for radio wall-transmitters and controllers, flat
polar white 949811021
black 949811301

The adhesive foil attaches to the frame and when installed on glass or any other transparent base it provides a closed backing surface.
To attain an even adhesive surface, it is recommended to flatten the adhesive foil for application 24 hours before installing the wall-transmitter / controller.
as sight shielding on backside (e.g. when mounting on glass)

Order no.

\section*{BLC BERKER LIGHT CONTROL}

Radio buttons
BLC radio button
white, glossy
polar white, glossy
anthracite, matt
aluminium, matt
stainless steel
Radio signal reception frequency \(433,42 \mathrm{MHz}\); Learnable radio transmitters 30

Extension unit operation with BLC extension unit and push-button (NO) possible as of release R2.1.

For actuation via button and radio transmitter.
For BLC universal touch dimmer order no. 2902
For BLC touch control unit 1-10 V order no. 2903
For BLC touch dimmer LV order no. 2904
For BLC triac switch insert LV order no. 2905
For BLC relay switch insert order no. 2906
For BLC relay switch insert with potential-free contact order no. 290610
For BLC relay switch insert HVAC order no. 2912
For BLC Tronic switch insert order no. 2916

■ with 2-push-buttons operation concept
■ with 5 light scenes for „on/off", dimming value
■ retrieving light scenes only by using radio transmitter
- radio signal of taught-in radio controller activates for 1 minute (subsequently triggered)
\(\square\) switch-on brightness for BLC dimmer insert mainsfailure protection storable
- reset function (to factory setting)

ROLLOTEC

\section*{RolloTec radio button}


I on page T37
\begin{tabular}{lll} 
white, glossy & \(\mathbf{1 7 5 8} \mathbf{7 0 0 2}\) & 1 \\
polar white, glossy & \(\mathbf{1 7 5 8} \mathbf{7 0 0 9}\) & 1 \\
anthracite, matt & \(\mathbf{1 7 5 8 7 0 0 6}\) & 1 \\
aluminium, matt & \(\mathbf{1 7 5 8} \mathbf{7 0 \mathbf { 2 4 }}\) & 1 \\
stainless steel & \(\mathbf{1 7 5 8} \mathbf{7 0 0 4}\) & 1
\end{tabular}

Radio signal reception frequency \(433,42 \mathrm{MHz}\); Learnable radio transmitters 30 ;
Lamella adjustment with signal < 1 sec .;
Self-sustaining for 2 min . with signal \(>1 \mathrm{sec}\).
For actuation via button and radio transmitter
For RolloTec standard insert without neutral
conductor connection order no. 2911
For RolloTec standard insert order no. 2925
For Rollotec comfort insert order no. 2975
For RolloTec comfort insert for direct current drives order no. 297501

■ with 5 light scenes for „open/close"
■ retrieving light scenes only by using radio transmitter

Order no.
Packing
unit
\begin{tabular}{|c|c|c|}
\hline & \multicolumn{2}{|l|}{RolloTec radio button with sensor connection} \\
\hline & white, glossy 17597002 & 1 \\
\hline & polar white, glossy 17597009 & 1 \\
\hline & anthracite, matt 17597006 & 1 \\
\hline & aluminium, matt 17597024 & 1 \\
\hline Ton page T37 & stainless steel 17597004 & 1 \\
\hline Ion page 737 & \multicolumn{2}{|l|}{\multirow[t]{4}{*}{\begin{tabular}{l}
Radio signal reception frequency \(433,42 \mathrm{MHz}\); Learnable radio transmitters 30; \\
Brightness value sun approx. 5-80 kLux; \\
Lamella adjustment with signal \(<1 \mathrm{sec}\).; \\
Self-sustaining for 2 min . with signal \(>1 \mathrm{sec}\).
\end{tabular}}} \\
\hline & & \\
\hline & & \\
\hline & & \\
\hline & \multicolumn{2}{|l|}{For actuation via button and radio transmitter.} \\
\hline
\end{tabular}

For RolloTec brightness sensors order no. 0169, 0184 For RolloTec glass breakage sensor order no. 0170 For RolloTec adapter for sensors order no. 0171
For RolloTec standard insert without neutral conductor connection order no. 2911
For RolloTec standard insert order no. 2925
For Rollotec comfort insert order no. 2975
For RolloTec comfort insert for direct current drives order no. 297501
For magnetic contact order no. 9251 .

■ with 5 light scenes for „open/close"
- retrieving light scenes only by using radio transmitter
■ brightness value for sunblind individually adjustable
- no twilight sensor function
- only for sensor connection to terminal block

Order no.
Packing
unit
CONTROLIERS


I on page T47
Radio controller 180 flat
\begin{tabular}{lll} 
white, glossy & \(\mathbf{9 4 2 0} \mathbf{7 0 0 2}\) & 1 \\
polar white, glossy & \(\mathbf{9 4 2 0 7 0 0 9}\) & 1 \\
anthracite, matt & \(\mathbf{9 4 2 0} \mathbf{7 0 0 6}\) & 1 \\
aluminium, matt & \(\mathbf{9 4 2 0 \mathbf { 7 0 2 4 }}\) & 1 \\
stainless steel, & \(\mathbf{9 4 2 0} \mathbf{7 0 0 4}\) & 1
\end{tabular} stainless steel, lacquered
\(3 \mathrm{~V}=\)
Battery life approx. 3 years;
Radio channels 1;
Radio signal transmission frequency \(433,42 \mathrm{MHz}\);
Radio signal transmission power < 10 mW ;
Radio signal transmission range (free field)
max. 60 m;
Nominal mounting height \(1,1 \mathrm{~m}\);
Range frontal approx. 10 m ;
Range lateral each approx. 6 m ;
Detection field semi-oval shaped approx. \(10 \times 12 \mathrm{~m}\);
Detection angle \(180^{\circ}\);
Detection levels 2;
Switching segments 72;
Response sensitivity programmable
approx. 20-100 \% ;
Response brightness adjustable approx. 0-80 /
unlimited Lux;
Dimensions assembling height \(23,5 \mathrm{~mm}\)
Direct sunlight penetration the upward-pointing detection plane results in failure of the movement controller. Only suitable for interiors!

If response brightness or movement of people is insufficient, it sends a radio signal to the radio controller power pack unit or other radio bus receivers.

Sight shielding film for backside e.g. installation on glass see accessories order no. 949833 ..
- not dependent on mains power
- the channel can be assigned to any number of radio receivers
- with red transmit and battery status LED
- with a lithium coin cell battery 3 V type: CR 2450
- with cover to limit detection angle to \(90^{\circ}\)
- installation with frames on even surface e.g. also for extention of combinations
- with fitting material, screws, wall plugs and adhesive pad
- screw fastening via supporting plate possible

Order no.
Packing
unit

\section*{WALL-TRANSMITTERS}


Radio wall-transmitter 1gang flat with labelling field
for white and polar white 272170091
anthracite 27217006
aluminium 27217024
stainless steel \(\quad 27217004\)
\(3 \mathrm{~V}=\)
Battery life approx. 3 years;
Radio channels 1;
Radio signal transmission frequency \(433,42 \mathrm{MHz}\);
Radio signal transmission power < 10 mW ;
Radio signal transmission range (free field) max. 100 m;
Labelling field length ( \(\mathrm{W} \times \mathrm{H}\) ) \(66,8 \times 52,8 \mathrm{~mm}\)

Replacement Lithium coin cell battery see radio bus order no. 1857
Sight shielding film for backside e.g. installation on glass see accessories order no. 949833 02, 94983330
- not dependent on mains power
- each channel can be allocated to as many radio receivers are required
- key functions: 1 channel/ 1 light scene/central OFF via dip switch adjustable
- changing of light scenes via DIP switch lockable
- with red transmit and battery status LED
- with lithium coin cell battery \(3 \vee\) type: CR 2032
- installation with frames on even surface e.g. also for extention of combinations
- with fitting material, screws, wall plugs and adhesive pad
- screw fastening via supporting plate possible

Order no.
Packing
unit
Radio wall-transmitter 2gang flat with labelling field for white and polar white 27227009
anthracite
aluminium
stainless steel
2722
27227024
27227004
\(3 \mathrm{~V}=\)
Battery life approx. 3 years;
Radio channels 2;
Radio signal transmission frequency \(433,42 \mathrm{MHz}\);
Radio signal transmission power \(<10 \mathrm{~mW}\);
Radio signal transmission range (free field) max. 100 m;
Labelling field length \((\mathrm{W} \times \mathrm{H}) 66,8 \times 25 \mathrm{~mm}\)

Replacement Lithium coin cell battery see radio bus order no. 1857
Sight shielding film for backside e.g. installation on glass see accessories order no. 949833 02, 949833 30

■ not dependent on mains power
■ each channel can be allocated to as many radio receivers are required
■ key functions: 2 channel/3 light scenes/central OFF via dip switch adjustable
- changing of light scenes via DIP switch lockable

■ with red transmit and battery status LED
■ with lithium coin cell battery 3 V type: CR 2032
- installation with frames on even surface e.g. also for extention of combinations
\(\square\) with fitting material, screws, wall plugs and adhesive pad
■ screw fastening via supporting plate possible


I on page T47
Radio wall-transmitter 3gang flat with labelling field
for white and polar white 272370091 anthracite 27237006 aluminium \(\quad 27237024\) stainless steel 27237004
\(3 \mathrm{~V}=\)

Battery life approx. 3 years;
Radio channels 3;
Radio signal transmission frequency \(433,42 \mathrm{MHz}\);
Radio signal transmission power \(<10 \mathrm{~mW}\);
Radio signal transmission range (free field) max. 100 m;
Labelling field length (W x H) 66,8 x 15,7 mm

Replacement Lithium coin cell battery see radio bus order no. 1857
Sight shielding film for backside e.g. installation on glass see accessories order no. 949833 02, 949833 30

■ not dependent on mains power
- each channel can be allocated to as many radio receivers are required
■ key functions: 3 channel/5 light scenes/central OFF via dip switch adjustable
■ changing of light scenes via DIP switch lockable
- with red transmit and battery status LED

■ with lithium coin cell battery 3 V type: CR 2032
- installation with frames on even surface e.g. also for extention of combinations
\(\square\) with fitting material, screws, wall plugs and adhesive pad
■ screw fastening via supporting plate possible
Order no.
Packing
unit
PUSH-BUTTONS
Push-buttons with labelling field
\begin{tabular}{lll} 
Push-button 1gang with labelling field \\
for white and polar white & \(\mathbf{7 5 1 6 1 3} \mathbf{7 0}\) & \\
aluminium & \(\mathbf{7 5 1 6 1 3 7 4}\) & 1 \\
anthracite & \(\mathbf{7 5 1 6 1 3 7 5}\) & 1 \\
stainless steel & \(\mathbf{7 5 1 6 1 3 7 3}\) & 1
\end{tabular}

Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\);
Labelling field length \((W \times H) 66,8 \times 52,8 \mathrm{~mm}\)
For radio wall-transmitter insert order no. 2764
\(\square\) with anti-dismantling protection
- with 2 red transmit and battery status LEDs

Push-button 2gang with labelling field for white and polar white 751623701 aluminium 75162374 anthracite 75162375 1 751623751
stainless steel \(\quad 75162373\)
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
Labelling field length (W x H) 66,8 x 25 mm
For radio wall-transmitter insert order no. 2764
- with anti-dismantling protection
- with 4 red transmit and battery status LEDs

Push-button 3gang with labelling field
for white and polar white 751633701
aluminium 75163374

75163375
75163373
anthracite \(\quad 75163375\)
stainless steel
Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\);
Labelling field length \((W \times H) 66,8 \times 15,7 \mathrm{~mm}\)
For radio wall-transmitter insert order no. 2764
- with anti-dismantling protection
- with 6 red transmit and battery status LEDs

Push-button \(\mathbf{4 g}\) gang with labelling field
for white and polar white 751643701
aluminium \(\quad 75164374\)
anthracite \(\quad 75164375\)
stainless steel \(\quad 75164373\)
1

75164375 1

Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
Labelling field length \((\mathrm{W} \times \mathrm{H}) 66,8 \times 25 \mathrm{~mm}\)
Only for flush-mounted installation.
For radio wall-transmitter insert order no. 2764
- only for frame with large cut-out
- with anti-dismantling protection
- with 8 red transmit and battery status LEDs

\section*{ACCESSORIES}


Adhesive foil for radio wall-transmitters and controllers, flat
polar white, glossy, 949833021
for K. 1
black, for K. 1 and K. 5949833301
The adhesive foil attaches to the frame and when installed on glass or any other transparent base it provides a closed backing surface.
To attain an even adhesive surface, it is recommended to flatten the adhesive foil for application 24 hours before installing the wall-transmitter / controller.
\(\square\) as sight shielding on backside (e.g. when mounting on glass)

Order no.
Packing
unit
BLC BERKER LIGHT CONTROL
Radio buttons
BLC radio button
white, glossy
polar white, glossy
brown, glossy
light bronze, metal
stainless steel
gold, metal
Radio signal reception frequency \(433,42 \mathrm{MHz}\);
Learnable radio transmitters 30
Extension unit operation with BLC extension unit and push-button (NO) possible as of release R2.1.

For actuation via button and radio transmitter.
For BLC universal touch dimmer order no. 2902
For BLC touch control unit 1-10 V order no. 2903
For BLC touch dimmer LV order no. 2904
For BLC triac switch insert LV order no. 2905
For BLC relay switch insert order no. 2906
For BLC relay switch insert with potential-free contact order no. 290610
For BLC relay switch insert HVAC order no. 2912
For BLC Tronic switch insert order no. 2916

■ with 2-push-buttons operation concept
- with 5 light scenes for „on/off", dimming value
- retrieving light scenes only by using radio transmitter
- radio signal of taught-in radio controller activates for 1 minute (subsequently triggered)
- switch-on brightness for BLC dimmer insert mainsfailure protection storable
- reset function (to factory setting)

\section*{ROLLOTEC}
\begin{tabular}{lcc}
\multicolumn{3}{l}{ RolloTec radio button with sensor connection } \\
white, glossy & \(\mathbf{1 7 5 9 0 0 1 2}\) & 1 \\
polar white, glossy & \(\mathbf{1 7 5 9 0 0} \mathbf{~ 0 9}\) & 1 \\
brown, glossy & \(\mathbf{1 7 5 9 0 0 1 1}\) & 1 \\
light bronze, metal & \(\mathbf{1 7 5 9} \mathbf{9 0 2 1}\) & 1 \\
stainless steel & \(\mathbf{1 7 5 9} \mathbf{9 0 1 4}\) & 1 \\
gold, metal & \(\mathbf{1 7 5 9} \mathbf{9 0 1 2}\) & 1
\end{tabular}

Radio signal reception frequency \(433,42 \mathrm{MHz}\);
Learnable radio transmitters 30;
Brightness value sun approx. 5-80 kLux;
Lamella adjustment with signal < 1 sec.;
Self-sustaining for 2 min . with signal > 1 sec .
For actuation via button and radio transmitter.
For RolloTec brightness sensors order no. 0169, 0184
For RolloTec glass breakage sensor order no. 0170
For RolloTec adapter for sensors order no. 0171
For RolloTec standard insert without neutral conductor connection order no. 2911
For RolloTec standard insert order no. 2925
For Rollotec comfort insert order no. 2975
For RolloTec comfort insert for direct current drives order no. 297501
For magnetic contact order no. 9251 ..
- with 5 light scenes for „open/close"
- retrieving light scenes only by using radio transmitter
- brightness value for sunblind individually adjustable
- no twilight sensor function
- only for sensor connection to terminal block

Order no.

\section*{CONTROLLERS}


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RolloTec radio button
\begin{tabular}{lll} 
white, glossy & \(\mathbf{1 7 5 8} \mathbf{0 0 1 2}\) & 1 \\
polar white, glossy & \(\mathbf{1 7 5 8 0 0 \mathbf { 0 0 }}\) & 1 \\
brown, glossy & \(\mathbf{1 7 5 8} \mathbf{0 0 1 1}\) & 1 \\
light bronze, metal & \(\mathbf{1 7 5 8 9 0 \mathbf { 2 1 }}\) & 1 \\
stainless steel & \(\mathbf{1 7 5 8 9 0 1 4}\) & 1 \\
gold, metal & \(\mathbf{1 7 5 8 9 0 1 2}\) & 1
\end{tabular}

Radio signal reception frequency \(433,42 \mathrm{MHz}\); Learnable radio transmitters 30 ; Lamella adjustment with signal < 1 sec.; Self-sustaining for 2 min . with signal > 1 sec .
For actuation via button and radio transmitter.
For RolloTec standard insert without neutral conductor connection order no. 2911
For RolloTec standard insert order no. 2925
For Rollotec comfort insert order no. 2975
For RolloTec comfort insert for direct current drives order no. 297501

■ with 5 light scenes for „open/close"
- retrieving light scenes only by using radio transmitter

\section*{Radio controller 180 flat}
\begin{tabular}{lll} 
white, glossy & \(\mathbf{9 4 2 0 0 0 0 2}\) & 1 \\
polar white, glossy & \(\mathbf{9 4 2 0 0 0 6 9}\) & 1 \\
light bronze, lacquered & \(\mathbf{9 4 2 0} \mathbf{9 0 1 1}\) & 1 \\
stainless steel, & \(\mathbf{9 4 2 0} \mathbf{9 0 0 4}\) & 1
\end{tabular} lacquered

3 V=
Battery life approx. 3 years;
Radio channels 1;
Radio signal transmission frequency \(433,42 \mathrm{MHz}\);
Radio signal transmission power < 10 mW
Radio signal transmission range (free field)
max. 60 m;
Nominal mounting height 1,1 m;
Range frontal approx. 10 m
Range lateral each approx. 6 m;
Detection field semi-oval shaped approx. \(10 \times 12 \mathrm{~m}\);
Detection angle \(180^{\circ}\);
Detection levels 2;
Switching segments 72 ;
Response sensitivity programmable
approx. 20-100 \% ;
Response brightness adjustable approx. 0-80। unlimited Lux;
Dimensions assembling height \(23,5 \mathrm{~mm}\)
Direct sunlight penetration the upward-pointing detection plane results in failure of the movement controller. Only suitable for interiors!

If response brightness or movement of people is insufficient, it sends a radio signal to the radio controller power pack unit or other radio bus receivers.

Sight shielding film for backside e.g. installation on glass see accessories order no. 949811 ..
- not dependent on mains power
- the channel can be assigned to any number of radio receivers
- with red transmit and battery status LED
with a lithium coin cell battery 3 V type: CR 2450
- with cover to limit detection angle to \(90^{\circ}\)
- installation with frames on even surface e.g. also for extention of combinations
- with fitting material, screws, wall plugs and adhesive pad
screw fastening via supporting plate possible

Order no.
Packing
unit
WALL-TRANSMITTERS


Radio wall-transmitter 1gang flat with labelling field
white, glossy 27210002
27210069
27219011
27219004
I on page T47
light bronze, lacquered
st
\(3 \mathrm{~V}=\)
Battery life approx. 3 years;
Radio channels 1;
Radio signal transmission frequency \(433,42 \mathrm{MHz}\);
Radio signal transmission power \(<10 \mathrm{~mW}\);
Radio signal transmission range (free field)
max. 100 m

Replacement Lithium coin cell battery see radio bus order no. 1857
Sight shielding film for backside e.g. installation on glass see accessories order no. 949811 ..
- not dependent on mains power
\(\square\) each channel can be allocated to as many radio receivers are required
\(\square\) key functions: 1 channel/1 light scene/central OFF via dip switch adjustable
- changing of light scenes via DIP switch lockable
\(\square\) with red transmit and battery status LED
■ with lithium coin cell battery 3 V type: CR 2032
- installation with frames on even surface e.g. also for extention of combinations
■ with fitting material, screws, wall plugs and adhesive pad
■ screw fastening via supporting plate possible


I on page T47

Radio wall-transmitter 2gang flat with labelling field
white, glossy 27220002
polar white, glossy 27220069
light bronze, lacquered 27229011
stainless steel,
lacquered
\(3 \mathrm{~V}=\)
Battery life approx. 3 years;
Radio channels 2;
Radio signal transmission frequency 433,42 MHz;
Radio signal transmission power \(<10 \mathrm{~mW}\);
Radio signal transmission range (free field)
max. 100 m

Replacement Lithium coin cell battery see radio bus order no. 1857
Sight shielding film for backside e.g. installation on glass see accessories order no. 949811 ..

■ not dependent on mains power
\(■\) each channel can be allocated to as many radio receivers are required
- key functions: 2 channel/3 light scenes/central OFF via dip switch adjustable
- changing of light scenes via DIP switch lockable
\(\square\) with red transmit and battery status LED
■ with lithium coin cell battery 3 V type: CR 2032
■ installation with frames on even surface e.g. also for extention of combinations
- with fitting material, screws, wall plugs and adhesive pad
■ screw fastening via supporting plate possible

Order no.


1 on page T47
,
stainless steel,
lacquered
\(3 \mathrm{~V}=\)
Battery life approx. 3 years;
Radio channels 4;
Radio signal transmission frequency \(433,42 \mathrm{MHz}\);
Radio signal transmission power < 10 mW ;
Radio signal transmission range (free field)
max. 100 m

Replacement Lithium coin cell battery see radio bus order no. 1857
Sight shielding film for backside e.g. installation on glass see accessories order no. 949811 ..
- not dependent on mains power

■ each channel can be allocated to as many radio receivers are required
■ key functions: 4 channel/5 light scenes/central OFF via dip switch adjustable
■ changing of light scenes via DIP switch lockable
\(■\) with red transmit and battery status LED
■ with lithium coin cell battery 3 V type: CR 2032
■ installation with frames on even surface e.g. also for extention of combinations
- with fitting material, screws, wall plugs and adhesive pad
■ screw fastening via supporting plate possible

\section*{Built-on installation housings}

1
1
Radio wall-transmitter 4gang flat with labelling field
\begin{tabular}{ll} 
white, glossy & 27240002 \\
polar white, glossy & 27240069 \\
light bronze, lacquered & 27249011 \\
stainless steel, & 27249004
\end{tabular}

\author{
都
}

> . -

I on page T51
\begin{tabular}{lcc} 
Built-on installation housing 1gang flat design \\
white & \(\mathbf{1 0 0 2 0 0 0 2}\) & 1 \\
polar white & \(\mathbf{1 0 0 2 0 0 6 9}\) & 1 \\
light bronze, lacquered & \(\mathbf{1 0 0 2 ~ 9 0 1 1}\) & 1 \\
stainless steel, & \(\mathbf{1 0 0 2 9 0 0 4}\) & 1
\end{tabular} stainless steel, 10029004

lacquered

Height 16 mm

For radio wall-transmitter insert order no. 2764

■ for radio wall-transmitter insert on surface mounted and as table-top radio transmitter
- with double-sided adhesive pads e.g. for mounting on panes of glass

PUSH-BUTTONS
Push-buttons with labelling field
\begin{tabular}{c}
\hline \\
\hline
\end{tabular}
\begin{tabular}{lrr} 
Push-button 1gang with labelling field \\
white, glossy & 75161042 & 1 \\
polar white, glossy & 75161049 & 1 \\
stainless steel, & 75161043 & 1 \\
lacquered & \\
light bronze, lacquered & 75161044 & 1 \\
Operating temperature \(-5-+45^{\circ} \mathrm{C}\) & \\
For radio wall-transmitter insert order no. 2764 \\
\\
\(\square\) with anti-dismantling protection \\
\(\square\) with red transmit and battery status LED
\end{tabular}

Order no.
Packing
Order no.
Packing
unit

\begin{tabular}{lcc} 
Push-button 2gang with labelling field & \\
white, glossy & \(\mathbf{7 5 1 6 ~ 2 0 ~ 4 2 ~}\) & 1 \\
polar white, glossy & \(\mathbf{7 5 1 6} \mathbf{2 0 4 9}\) & 1 \\
stainless steel, & \(\mathbf{7 5 1 6} \mathbf{2 0 4 3}\) & 1 \\
lacquered & & \\
light bronze, lacquered & \(\mathbf{7 5 1 6 ~ 2 0 ~ 4 4}\) & 1
\end{tabular}

Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\)

For radio wall-transmitter insert order no. 2764
- with anti-dismantling protection
- with 2 red transmit and battery status LEDs
\begin{tabular}{|c|c|}
\hline & Push-button 4gang with labelling field \\
\hline & white, glossy 75164042 \\
\hline - - - & polar white, glossy \(\quad 75164049\) \\
\hline 11 & \begin{tabular}{l}
stainless steel, \(\quad 75164043\) \\
lacquered
\end{tabular} \\
\hline & light bronze, lacquered 75164044 \\
\hline & Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\) \\
\hline & For radio wall-transmitter insert order no. 2764 \\
\hline & \begin{tabular}{l}
■ with anti-dismantling protection \\
- with 4 red transmit and battery status LEDs
\end{tabular} \\
\hline
\end{tabular}

\section*{Push-buttons}
\begin{tabular}{|c|c|c|}
\hline \multicolumn{3}{|l|}{Push-button 1gang} \\
\hline white, glossy & 75161142 & 1 \\
\hline polar white, glossy & 75161149 & 1 \\
\hline stainless steel, lacquered & 75161143 & 1 \\
\hline light bronze, lacquered & 75161144 & 1 \\
\hline Operating temperature & - \(-+45{ }^{\circ} \mathrm{C}\) & \\
\hline
\end{tabular}

For radio wall-transmitter insert order no. 2764
- with anti-dismantling protection



\section*{instabus KNX/EIB}

\section*{Building management systems}

The economic shared use of buildings is gaining in importance. In functional buildings the result can be seen on such factors as flexibility, building transparency, functionality and energy savings. And when it comes to private homes, there are also requirements for safety, security, comfort and well-being. A modern electrical installation with the Instabus KNX/EIB system creates ideal conditions for accommodating all of these requirements through integration of the entire building management system.
- Convenience functions such as centralised operation of all lights in the house and garden, simultaneous activation of lights and blinds in light scenes or central switching-off of all electrical consumers when leaving the house
- needs-oriented single-room and time-dependent temperature control
- central display and operating elements for the lighting, blinds and heating systems
- control of audio and video
- energy efficiency through automatic control using time settings or sensor measured values
- greater safety and security through functions such as presence simulation, panic circuits, motion-dependent switching of light, monitoring of opening of windows and doors, smoke detector alarms, forwarding of fault messages
- IP connection for remote access via the Internet as well as e-mail reception and the use of RSS newsfeeds
- recording and depiction of operating and building data
- KNX/EIB push-buttons and covers available in the designs of the standard and surface ranges

\section*{Berker trainings and service KNX/EIB}

For more information about product training dates or for technical support please contact our local representatives or the sales representative for your area.
For more information about products please have a look into our KNX/EIB technical manual or visit www.berker.com

\begin{tabular}{|c|c|c|c|}
\hline System components & 354-355 & Analogue actuators & 375 \\
\hline Accessories & 356 & Valve drives & 376 \\
\hline Push-buttons/Group push-buttons BCU & 356 & Heating actuators & 377-378 \\
\hline Bus coupling units & 356-357 & Gateways & 378-379 \\
\hline Binary inputs & 357-359 & Alarm sytem KNX/EIB & 380 \\
\hline Timers & 359-360 & Panels & 380-381 \\
\hline Presence detectors & 360-361 & Software & 381 \\
\hline Brightness sensors & 361 & KNX/EIB Modul 2 & 382-386 \\
\hline Analogue inputs & 361-362 & KNX/EIB Berker S.1/B.1/B.3/B.7 Glas & 387-395 \\
\hline Weather stations & 362-363 & KNX/EIB Berker Q. 1 & 396-402 \\
\hline Sensors & 363-365 & KNX/EIB Berker K.1/K. 5 & 403-410 \\
\hline Switch actuators & 365-368 & KNX/EIB Berker Arsys & 411-415 \\
\hline Combination actuators & 369 & KNX/EIB Berker B.IQ & 416-421 \\
\hline Shutter actuators & 370-371 & KNX/EIB Aquatec IP44 & 421-422 \\
\hline Dim actuators & 371-375 & Quick overview switch/shutter actuators, dimming actuators Dali gateway & 423-425 \\
\hline
\end{tabular}

Order no.
\begin{tabular}{|c|c|}
\hline & Order no. \(\begin{array}{r}\text { Packing } \\ \text { unit }\end{array}\) \\
\hline \multicolumn{2}{|l|}{SYSTEM COMPONENTS} \\
\hline \multicolumn{2}{|l|}{Power supplies} \\
\hline  & \begin{tabular}{l}
Power supply 320 mA RMD \\
light grey \\
75010009 \\
230 V , \(50 / 60 \mathrm{~Hz}\) \\
Output voltage 28-31 V=; \\
Output current max. 320 mA ; \\
Bus cables max. 2; \\
Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\); \\
RMD 4 modules; \\
Dimensions (W x H x D) \(72 \times 90 \times 68 \mathrm{~mm}\); \\
Assembling height as from DIN rail 61 mm \\
- with integral choke \\
■ with integral reset switch \\
\(\square\) short-circuit and overload proof (electronic fuse) \\
\(\square\) with green operation LED, red overload LED and yellow overvoltage LED \\
\(\square\) with red reset LED \\
\(\square\) further bus line connectable with connecting terminal \\
■ further bus line must be decoupled by choke \\
\(\square\) protected earth conductor must be connected \\
- with screw terminals
\end{tabular} \\
\hline  & \begin{tabular}{l}
Power supply 640 mA RMD \\
light grey
\[
75010010
\]
\end{tabular} \\
\hline  & \begin{tabular}{l}
230 V~, \(50 / 60 \mathrm{~Hz}\) \\
Output voltage 28-31 V=; \\
Output current max. 640 mA ; \\
Bus cables max. 3; \\
Operating temperature \(-5-+45^{\circ} \mathrm{C}\); \\
RMD 7 modules; \\
Dimensions (W x H x D) \(126 \times 90 \times 68 \mathrm{~mm}\); \\
Assembling height as from DIN rail 61 mm
\end{tabular} \\
\hline & \begin{tabular}{l}
\(\square\) with 2 integrated chokes \\
■ with 2 integrated reset switches \\
- short-circuit and overload proof (electronic fuse) \\
■ with green operation LED, red overload LED and yellow overvoltage LED \\
\(\square\) with 2 red reset LEDs \\
- other 3rd bus line can be connected via terminal \\
- other 3rd bus line must be decoupled via a choke \\
- protected earth conductor must be connected \\
- with screw terminals
\end{tabular} \\
\hline
\end{tabular}

Order no.
Packing
unit
\begin{tabular}{|c|c|}
\hline & Power supply 640 mA RMD uninterruptible \\
\hline ** \(\uparrow\) *** & light grey 75010015 \\
\hline  & \begin{tabular}{l}
230 V , \(50 / 60 \mathrm{~Hz}\) \\
Output voltage 28-31 V=; \\
Output current max. 640 mA ; \\
Mains buffering approx. 5,5 h/lead battery 12 Ah ; \\
Bus cables max. 1; \\
Operating temperature \(-5-+45^{\circ} \mathrm{C}\); \\
RMD 8 modules; \\
Dimensions (W x H x D) \(144 \times 90 \times 66 \mathrm{~mm}\); \\
Assembling height as from DIN rail 59 mm \\
Basic cable set order no. 75900066 \\
Extension cable set order no. 75900067 \\
for connecting 12 V lead batteries order \\
no. 75900068 \\
- with integral reset button \\
■ with green operation LED, red overload LED and yellow overvoltage LED \\
- with green mains LED and green storage battery indicator LED \\
- potential-free change-over signalling contact for power failure, storage battery failure, overload/o \\
line connection via connecting terminal \\
temperature-controlled charging of the battery \\
- connection of a second lead battery to extend the backup power time \\
\(\square\) protected earth conductor must be connected \\
- with screw terminals
\end{tabular} \\
\hline flyt:cs & \begin{tabular}{l}
Lead battery 12 V \\
75900068 \\
Rated voltage \(12 \mathrm{~V}=\); \\
Load capacitance 12 Ah ; \\
Dimensions (W x H x D) \(94 \times 151 \times 98 \mathrm{~mm}\); \\
Weight approx. 4,2 kg; \\
Service life approx. 5 Years \\
Connection to 640 mA power supply, uninterruptible \\
order no. 75900066 \\
Extension cable set order no. 75900067
\end{tabular} \\
\hline  & \begin{tabular}{l}
Basic cable set
\[
\begin{equation*}
75900066 \tag{1}
\end{equation*}
\] \\
Cable length approx. \(2 \mathrm{~m}, 4 \times 0,75 \mathrm{~mm}^{2}\) \\
To connect a lead battery order no. 75900068 to the 640 mA power supply, uninterruptible order no. 75010015
with temperature sensor \\
■ with fuse holder for fine-wire fuses
\end{tabular} \\
\hline
\end{tabular}

Extension cable set
75900067
1
Cable length approx. \(2 \mathrm{~m}, 2 \times 0,75 \mathrm{~mm}^{2}\)

To connect a second lead battery order no. 759000 68 to the 640 mA power supply, uninterruptible order no. 75010015

Order no.
Packing
unit

\section*{Couplers}

\section*{Coupler RMD}
light grey \(\quad 75010014\)
Operating voltage over bus \(21-32 \mathrm{~V}=\);
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
RMD 2 modules;
Dimensions (W x H x D) \(36 \times 90 \times 70 \mathrm{~mm}\);
Assembling height as from DIN rail 63 mm

■ can be used as line/area coupler or line amplifier
\(\square\) with programming button
■ With green operation LED, red programming LED and red diagnosis LED
\(\square\) with 2 yellow data traffic LEDs for higher and lower ranking line
■ line connection via connecting terminal

\section*{IP router RMD}
light grey 75010016
Operating voltage \(24 \mathrm{~V} \sim /=\);
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
RMD 2 modules;
Dimensions (W x H x D) \(36 \times 90 \times 58 \mathrm{~mm}\);
Assembling height as from DIN rail 55 mm
Needed for operation a power supply of 24 V AC RMD order nr. 75910001
- quick communication of lines/areas and systems via data networks (Internet protocols)
- as interface to PCs and data processing devices
- for reporting bus voltage failure via data networks

■ internet protocols supported: ARP, ICMP, IGMP, UDP/IP, DHCP
■ EIBnet/IP according to Konnex specifications: Core, Routing, Tunneling, Device Management
■ can be used as line/area coupler
- with RJ45 connection for Ethernet/IP networks
\(\square\) with programming button and red programming LED
\(\square\) with green operation LED and yellow data traffic LED
- with green, yellow and red LEDs for indicating the IP communication
- line connection via connecting terminal

■ operating voltage connection via connecting terminal

Order no.
Packing
unit
Data interfaces
Data interface RMD
light grey \#75010013
1
Operating voltage over bus 21-32 V=;
Data transfer rate max. 9,6 kBaud;
Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\);
Connection cable length max. 15 m ; RMD 2 modules;
Dimensions (W x H x D) \(36 \times 90 \times 651 \mathrm{~mm}\); Assembling height as from DIN rail 59 mm

For connection of a PC for addressing, programming and diagnosis of instabus components and for visualisation.
\(■\) for addressing, programming and diagnosis of KNX/EIB components
■ with interface RS 232 (9pole socket
D-subminiature)
\(\square\) with programming button and red programming LED
- with green operation LED and yellow status LED
- bus connection via connecting terminal

\section*{USB data interface RMD \\ light grey 75010012 \\ 1}

Operating voltage over bus 21-32 V=;
Data transfer rate max. 9,6 kBaud;
Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\);
USB cable length max. 5 m ;
RMD 2 modules;
Dimensions (W x H x D) \(36 \times 90 \times 70 \mathrm{~mm}\);
Assembling height as from DIN rail 63 mm
For connection of a PC for addressing, programming and diagnosis of instabus components and for visualisation.
\(■\) for addressing, programming and diagnosis of KNX/EIB components
- programmable with ETS3 from V1.0

■ system requirements: Windows 2000 or later
■ with B-type USB socket for data traffic (voltage supply via PC)
■ compatible with USB 1.1/2.0 transmission protocols
- with flash-controller technology


\section*{USB data interface flush-mounted}
black 75040004
1
Operating voltage over bus 21-32 V=;
Data transfer rate max. 9,6 kBaud;
USB cable length max. 5 m ;
Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\)
Centre plate order no. 1033 .., 1034 .., 1035 .., 1040 .
For central plate order no. 1458 ..
\(\square\) for addressing, programming and diagnosis of KNX/EIB components
- programmable with ETS3 from V1.0

■ system requirements: Windows 2000 or later
- with B-type USB socket for data traffic (voltage supply via PC)
- compatible with USB 1.1/2.0 transmission protocols

■ with flash-controller technology
- without spreader claws

Order no.
Order no.


\section*{Push-button BCU 2gang}

75142000
1
Operating voltage over bus \(21-32 \mathrm{~V}=\);
Operating temperature \(-5-+45^{\circ} \mathrm{C}\); Installation depth 32 mm

Use rockers from flush-mounted ranges
Protective cover see module inserts order no. 1847

■ for switch, push-button, dimmer and shutter functions
■ with integral bus coupling unit
■ with programming button
■ with red programming LED and 2 red status LEDs
■ bus connection via connecting terminal

\section*{Group push-button BCUs}


Group push-button BCU 1gang 75141100
1

Operating voltage over bus \(21-32 \mathrm{~V}=\);
Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\);
Installation depth 32 mm
Use rockers from flush-mounted ranges
Protective cover see module inserts order no. 1847
- for switch, push-button, dimmer and shutter functions
- with integral bus coupling unit
- with programming button
- with red programming LED and red status LED
\(■\) with neutral-position
■ bus connection via connecting terminal


\section*{Group push-button BCU 2gang}
\[
75142100
\]

1
Operating voltage over bus \(21-32 \mathrm{~V}=\);
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
Installation depth 32 mm
Use rockers from flush-mounted ranges.
Protective cover see module inserts order no. 1847
- for switch, push-button, dimmer and shutter functions
■ with integral bus coupling unit
- with programming button

■ with red programming LED and 2 red status LEDs
■ with neutral-position
- bus connection via connecting terminal

\section*{BUS COUPLING UNITS}


\section*{Bus coupling unit flush-mounted} 75040001

Operating voltage over bus \(21-32 \mathrm{~V}=\); Operating temperature \(-5-+45^{\circ} \mathrm{C}\); Installation depth 23 mm

Protective cover see accessories order no. 75000007

■ as interface between instabus KNX/EIB user module and bus line
■ with programming button and red programming LED
\(\square\) bus connection via connecting terminal
■ without spreader claws

\section*{Bus coupling unit flush-mounted plus 75040003}

Operating voltage over bus \(21-32 \mathrm{~V}=\);
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
Installation depth 20 mm

\section*{Protective cover see accessories order} no. 75000007
B.IQ push-button with room thermostat order no. 756635 .., 756645 .., 756655 .. B.IQ IR push-button with room thermostat order no. 756636 .., 756646 .., 756656 ..

■ for B.IQ push-buttons with room thermostat and display or Bluetooth gateways
\(\square\) with programming button and red programming LED
\(\square\) bus connection via connecting terminal
■ without spreader claws
\begin{tabular}{ll} 
Sensor insert & Sensor insert \\
BINARY INPUTS
\end{tabular}

\section*{Binary input 8gang 230 V AC RMD} light grey 75218001

1
Operating voltage over bus 21-32 V=;
Signal voltage 110-230 V~;
Signal frequency \(50 / 60 \mathrm{~Hz}\);
Signal current 7 mA ;
Signal duration 200-100 \% ED;
Neon lamp current max. 2 mA;
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
Input cable length max. 100 m ;
RMD 4 modules;
Dimensions (W \(\times \mathrm{H} \times \mathrm{D}\) ) \(72 \times 90 \times 65 \mathrm{~mm}\); Assembling height as from DIN rail 58 mm

Detects the presence of or change in a voltage level at its inputs and, depending on the chosen application, sends telegrams over the instabus KNX/EIB.
- with 8 independent binary inputs with separate neutral conductor
- suitable for different external conductors
- with programming button and red programming LED
- with 8 yellow status LEDs for input states
- bus connection via connecting terminal
- with screw terminals


\section*{Binary input 6gang 24 V AC/DC RMD \\ light grey 75216001 \\ 1}

Operating voltage over bus 21-32 V=;
Signal voltage 8-42 V~/=;
Signal frequency \(50 / 60 \mathrm{~Hz}\);
Signal current 4 mA ;
Signal duration 200-100 \% ED;
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
Input cable length max. 100 m ;
RMD 2 modules;
Dimensions (W \(\times H \times D) 36 \times 90 \times 65 \mathrm{~mm}\);
Assembling height as from DIN rail 58 mm
External power supply 24 V necessary!
Detects the presence of or change in a voltage level at its inputs and, depending on the chosen application, sends telegrams over the instabus KNX/EIB.
- with 6 independent binary inputs with 2 GND connections
- with programming button and red programming LED
- with 6 yellow status LEDs for input states
- bus connection via connecting terminal
- with screw terminals

Order no.
Packing
unit


\section*{Universal interface 2gang comfort} flush-mounted
light grey \(\quad 75642001\)
Operating voltage over bus \(21-32 \mathrm{~V}=\); Input scanning voltage per channel 5 V ;
Output current per channel max. \(0,8 \mathrm{~mA}\);

Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
Cable length approx. 250 mm ;
Extendable cable length max. 5 m ;
Dimensions ( \(\mathrm{L} \times \mathrm{W} \times \mathrm{H}\) ) \(43 \times 28,5 \times 15,5 \mathrm{~mm}\)
- with 2 independent binary inputs for potential-free contacts
- 2 binary inputs, 2 outputs or 1 binary input and 1 output parameterisable
- outputs for LED e.g. as status LED
- for switch, push-button, dimmer and shutter functions
- value transmitter for dimming, position, brightness and temperature values 1 and 2 byte
\(\square\) functions: impulse counter or switch counter for input 1
- for impulse counter function, input 2 is required for the synchronising signal
- extension unit for light scene push-button
- cyclic transmission parameterisable for switching function
■ single and two push-button operation parameterisable
- one push-button operation for switching, pushing, shutters and dimming
- shutter operation concept short-long-short and long-short parameterisable
- objects for locking individual inputs and outputs
- objects: switching, forced guidance and feedback of respective output
- object for logic operations (e.g. OR/AND/AND with feedback)
- with programming button and red programming LED
■ bus connection via connecting terminal

Order no.
Packing
unit

\section*{Universal interface 4gang comfort flush-mounted}
light grey \(\quad 75644001\)

Operating voltage over bus \(21-32 \mathrm{~V}=\);
Input scanning voltage per channel 5 V ;
Output current for channels 1 and 2 , each max. 0,8
mA;
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
Cable length approx. 250 mm ;
Extendable cable length max. 5 m ;
Dimensions (L x W x H) \(43 \times 28,5 \times 15,5 \mathrm{~mm}\)
- with 4 independent binary inputs for potential-free contacts
\(\square 4\) binary inputs or 2-3 binary inputs and 1-2 outputs parameterisable
■ outputs for LED e.g. as status LED
- for switch, push-button, dimmer and shutter functions
■ value transmitter for dimming, position, brightness and temperature values 1 and 2 byte
- functions: impulse counter or switch counter for inputs 1 and 2
- for impulse counter function, inputs 3 and 4 are required for the synchronising signal
- extension unit for light scene push-button

■ cyclic transmission parameterisable for switching function
\(■\) single and two push-button operation parameterisable
- one push-button operation for switching, pushing, shutters and dimming
- shutter operation concept short-long-short and long-short parameterisable
- objects for locking individual inputs and outputs
- objects: switching, forced guidance and feedback of respective output
■ object for logic operations (e.g. OR/AND/AND with feedback)
■ with programming button and red programming LED
■ bus connection via connecting terminal

Order no.


\section*{Universal interface 8gang comfort flush-mounted \\ black 75648001}

Operating voltage over bus \(21-32 \mathrm{~V}=\); Input scanning voltage per channel 20 V ; Output current per channel max. 0,8 mA; Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
Max. cable length 10 m;
Dimensions (W x H x D) \(44 \times 48 \times 32 \mathrm{~mm}\)

■ with 8 independent binary inputs for potential-free contacts
■ 8 binary inputs, 8 outputs or 4 binary inputs and 4 outputs parameterisable
■ outputs for LED e.g. as status LED
\(\square\) with programming button and red programming LED
\(\square\) for switch, push-button, dimmer and shutter functions
- dimming / position value transmitter 1 byte
\(\square\) extension unit for light scene push-button
- cyclic transmission can also be started via switching object
- single and two push-button operation parameterisable
■ one push-button operation for switching, pushing and dimming
\(\square\) shutter operation concept short-long-short and long-short parameterisable
- objects: switching, pos. oper., feedback of respective output (only for applic. 4input/4output)
■ object for audio/video control
\(\square\) second operating level by object or 3-button handle (only 8-input application)
- short-circuit and overload proof (electronic fuse)

■ protected against polarity reversal
\(\square\) bus connection via connecting terminal
- with screw terminals

\section*{Week timer 2gang RMD}
light grey \(\quad 75212006\)

Operating voltage over bus \(21-32 \mathrm{~V}=\);
Memory capacity 36;
Power reserve approx. 6 years;
Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\);
RMD 2 modules;
Dimensions (W x H x D) \(35,8 \times 86 \times 65 \mathrm{~mm}\);
Assembling height as from DIN rail 60 mm
- date and time factory pre-programmed

■ with automatic summer/winter time change-over
- with holiday switching
\(\square\) bus connection via connecting terminal
- with screw terminals


\section*{Year timer switch 4gang RMD}
light grey 75214007
1
Operating voltage over bus 21-32 V=;
Auxiliary voltage \(230 \mathrm{~V} \sim\);
Frequency \(50 / 60 \mathrm{~Hz}\);
Memory capacity 324 ;
Weekly programmes 9 ;
Power reserve approx. 1,5 years;
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
RMD 6 modules;
Dimensions ( \(\mathrm{W} \times \mathrm{H} \times \mathrm{D}\) ) \(105 \times 86 \times 66 \mathrm{~mm}\);
Assembling height as from DIN rail 60 mm
Programming set for OBELISK order no. 75900048
OBELISK memory card order no. 75900049
- with programming button
- with red programming LED
- programming at timer or using OBELISK
- with interface for OBELISK memory card
- with day, weeks and year programme
- temporary/permanent manual operation
- with random programme
- with automatic summer/winter time change-over
- with emergency power supply coin cell battery 3 V type: CR 2450
- bus connection via connecting terminal
- with screw terminals


\section*{Year timer switch 4gang DCF RMD}
light grey 75214006
1
Operating voltage over bus 21-32 V=;
Auxiliary voltage 230 V ;
Frequency \(50 / 60 \mathrm{~Hz}\);
Memory capacity 324 ;
Weekly programmes 9 ;
Power reserve approx. 1,5 years;
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
RMD 6 modules;
Dimensions ( \(\mathrm{W} \times \mathrm{H} \times \mathrm{D}\) ) \(105 \times 86 \times 66 \mathrm{~mm}\);
Assembling height as from DIN rail 60 mm
DCF receiver order no. 75900047
Programming set for OBELISK order no. 75900048
OBELISK memory card order no. 75900049
- with programming button
- with red programming LED
- programming at timer or using OBELISK

■ with interface for OBELISK memory card
- with day, weeks and year programme
- temporary/permanent manual operation
- with random programme
- with automatic summer/winter time change-over
- with emergency power supply coin cell battery 3 V type: CR 2450
- with connection for DCF receiver
- bus connection via connecting terminal
- with screw terminals

OBELISK memory card
light grey \(\quad 75900049\)

1
Dimensions (W x H x D) \(28 \times 60 \times 7 \mathrm{~mm}\)
For year timer switch 4gang RMD order
no. 75214006
For year timer switch 4gang DCF RMD order no. 75214007

Order no.
Order no.
Packing
unit


PRESENCE DETECTORS


Presence detector standard
polar white \(\quad 75262001\)
1
Recommended mounting height approx. 2,5 m;
Detection field on floor approx. diameter 8 m ;
Detection field at desk height approx. diameter 5 m ;
Detection angle \(360^{\circ}\);
Detection levels 6;
Sectors 80;
Switching segments 320;
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
Dimensions (diameter x assembling height)
\(103 \times 42 \mathrm{~mm}\)
When movement of a person is detected a parameter defined data telegram is sent.
For bus coupling unit flush-mounted order no. 75040001

■ energy saving by means of presence and brightness-dependent switching of light, heating etc.
- with 2 output channels for which the parameters are to be set independently
- with 2 operating modes presence detector or ceiling controller
- with teach object for response brightness
- with potentiometers for fine adjustment of the response brightness, sensitivity and delay time
■ can only be used as individual unit
■ with push-on cover to limit the detection field


\section*{Presence detector comfort polar white \(\quad 75264001\)}

Recommended mounting height approx. \(2,5 \mathrm{~m}\);
Detection field on floor approx. diameter 8 m ;
Detection field at desk height approx. diameter 5 m ;
Detection angle \(360^{\circ}\);
Detection levels 6;
Sectors 80;
Switching segments 320;
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
Dimensions (diameter x assembling height) \(103 \times 42 \mathrm{~mm}\)

When movement of a person is detected a parameter defined data telegram is sent.
For bus coupling unit flush-mounted order no. 75040001

■ energy saving by means of presence and brightness-dependent switching of light, heating etc.
\(\square\) with 4 output channels for which parameters are set independently, max. 2 per operating mode
- with 3 modes - presence detector, ceiling controller and message mode
■ with teach object for response brightness
■ with potentiometers for fine adjustment of the response brightness, sensitivity and delay time
■ can be used as a single unit, main device or extension unit
■ with push-on cover to limit the detection field

Order no.
Packing
unit

\section*{Built-on installation housings}

Surface-mounted housing for BLC and KNX/EIB presence detectors polar white 107609
Dimensions (diameter x H) \(103 \times 45 \mathrm{~mm}\)
for order no. 1701 10, 1701 11, 752620 01, 75264001
- cable entry from all sides possible

\section*{BRIGHTNESS SENSORS}


Brightness sensor 3gang RMD
light grey 75213006
1
Operating voltage over bus 21-32 V=;
Brightness measuring range 1-100 Lux;
Brightness measuring range 0,1-20 kLux;
Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\);
RMD 2 modules;
Sensor dimensions (W \(\times \mathrm{H} \times \mathrm{D}\) ) \(27 \times 86 \times 38 \mathrm{~mm}\);
RMD module dimensions ( \(\mathrm{W} \times \mathrm{H} \times \mathrm{D}\) )
\(35,8 \times 86 \times 66 \mathrm{~mm}\);
Assembling height as from DIN rail 60 mm
- with integral bus coupling unit
- with brightness sensor surface-mounted IP65
\(\square\) with programming button and red programming LED
\(\square\) bus connection via connecting terminal
■ with screw terminals

\section*{Brightness sensor 1gang built-in \\ light grey \#75431001}

1
Operating voltage over bus 21-32 V=;
Brightness measuring range 0-2 kLux;
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
Sensor cable length (not extendable) 2 m ;
Sensor dimensions (W x H x D) \(26 \times 25 \times 77,4 \mathrm{~mm}\);
Dimensions, built-in device ( \(\mathrm{L} \times \mathrm{W} \times \mathrm{H}\) )
\(275 \times 42 \times 28 \mathrm{~mm}\)
\(\square\) with brightness sensor built-in, e.g. for intermediate ceiling
- constant light control only possible in conjunction with dim actuators or control units
- with programming button and red programming LED
■ bus connection via connecting terminal

Order no.
Packing
unit
Brightness sensor/temperature sensor
Brightness and temperature sensor surface-mounted polar white \(\quad 75492002\)
Operating voltage over bus 21-32 V=;
Brightness measuring range, linear 1 Lux- 100 kLux; Temperature measurement range, linear - \(25-+55^{\circ} \mathrm{C}\);
Operating temperature \(-25-+55^{\circ} \mathrm{C}\);
Dimensions (W x H x D) \(72 \times 110 \times 54 \mathrm{~mm}\)

\section*{IP54}
\(\square 4\) independent channels with individual limit values for processing brightness and/or temperature
\(\square\) teach object for brightness limit value for each channel
- logic AND operation of the limit values can be set for each channel
- additional sun protection channel with objects for Venetian blind control
- with integral bus coupling unit
- bus connection via connecting terminal

\section*{ANALOGUE INPUTS}


\section*{Analogue input 4gang RMD}
light grey
75414004
1
Operating voltage over bus 21-32 V=;
Auxiliary voltage \(24 \mathrm{~V} \sim\);
Frequency \(50 / 60 \mathrm{~Hz}\);
Inputs voltage 0-1; 0-10 V;
Voltage input impedance \(18 \mathrm{k} \Omega\);
Inputs current 0-20; 4-20 mA;
Current input impedance \(100 \Omega\)
Sensor output voltage \(24 \mathrm{~V}=\);
Sensor output current max. 100 mA ;
Current consumption max. 170 mA ;
Limiting values per channel 2 ;
Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\);
RMD 4 modules;
Dimensions (W \(\times \mathrm{H} \times \mathrm{D}\) ) \(72 \times 90 \times 70 \mathrm{~mm}\);
Assembling height as from DIN rail 63 mm
The analogue input is for the registration and treatment of independent analogue sensor signals. Depending on the input signal, limiting value messages can be transmitted via KNX/EIB.
Extendable with an analogue input module 4gang order no. 75424004
Needed for operation a power supply of 24 V AC RMD order nr. 75910001

Input signals to DIN IEC 381-1, -2
■ inputs parameterisable can be set individually
- input 4-20 mA will be controlled for wire break
- cyclic transmission or transmission at absolute input modification settable
■ with system interface for analogue input module
- with programming button and red programming LED
- with green/red status LED (operation/fault)
\(\square\) for wind, rain, brightness, temperature, twilight as well as humidity and temperature sensor surf.-m
- for active sensors
- bus connection via connecting terminal
- with screw terminals

Order no.
Packing
unit
\begin{tabular}{|c|c|}
\hline Analogue inp & modules \\
\hline ******** & Analogue input module 4gang RMD \\
\hline \multirow[t]{2}{*}{\(\cdots\)} & light grey 75424004 \\
\hline & Operating voltage over bus 21-32 V=; Auxiliary voltage \(24 \mathrm{~V} \sim\); \\
\hline \multirow[t]{19}{*}{} & Frequency \(50 / 60 \mathrm{~Hz}\); \\
\hline & Inputs voltage 0-1; 0-10 V; \\
\hline & Voltage input impedance \(18 \mathrm{k} \Omega\); \\
\hline & Inputs current 0-20; 4-20 mA; \\
\hline & Current input impedance \(100 \Omega\); \\
\hline & Sensor output voltage \(24 \mathrm{~V}=\); \\
\hline & Sensor output current max. 100 mA ; \\
\hline & Current consumption max. 170 mA ; \\
\hline & Limiting values per channel 2 ; \\
\hline & Operating temperature \(-5-+45^{\circ} \mathrm{C}\); \\
\hline & RMD 4 modules; \\
\hline & Dimensions (W \(\times \mathrm{H} \times \mathrm{D}\) ) \(72 \times 90 \times 70 \mathrm{~mm}\); \\
\hline & Assembling height as from DIN rail 63 mm \\
\hline & Extension for weather station 4gang order no. 75414003 \\
\hline & Extension for analogue input 4gang order no. 75414004 \\
\hline & Input signals to DIN IEC 381-1, -2 \\
\hline & \begin{tabular}{l}
input 4-20 mA will be controlled for wire break \\
■ with green/red status LED (operation/fault)
\end{tabular} \\
\hline & for wind, rain, brightness, temperature, twilight as well as humidity and temperature sensor surf.-m for active sensors \\
\hline & \(\square\) with screw terminals \\
\hline
\end{tabular}

Order no.
Packing
unit

\section*{WEATHER STATIONS}


\section*{Weather station}

\section*{aluminium, matt \(\quad 75490001\)}

Operating voltage over bus 21-32 V=;
Auxiliary voltage \(24 \mathrm{~V} \sim /=\);
Inputs current 300 mA ;
Sensor head rotatable \(+/-90^{\circ}\);
Brightness measuring range linear (3 times)
0-110 kLux (east, south, west);
Twilight measuring range linear 0-674 Lux;
Spectral area approx. 700-1050 nm;
Wind speed measuring range 1-40 m/s;
Precipitation (Yes/No) 1 Bit;
Temperature measurement range,
linear - \(20-+55^{\circ} \mathrm{C}\);
Operating temperature \(-20-+55^{\circ} \mathrm{C}\)
Ensure correct orientation and free-standing installation.

To record wind, precipitation, temperature and brightness, and to process the signals.
Corner mounting piece order no. 014909
Mast adapter order no. 0154
Condensation detection and heating require power supply 24 V AC RMD order no. 75910001

IP44
■ with wind, precipitation, twilight, temperature and 3 brightness sensors
\(\square\) brightness measuring is possible in 3 directions
■ with integral bus coupling unit
■ with magnet for programming reed contact and red programming LED
- with heater element for winter operation

■ for wall mounting
- delay times and hysteresis adjustable

■ with logic gates for linking the limiting value results
■ with blocking modules for filtering input objects depending on blocking objects
- software protected operation supervision for wind sensor
■ bus connection via connecting terminal
■ with plug-in terminals for power supply

Order no.
Order no.


\section*{Weather station 4gang comfort RMD} light grey \(\quad 75414003\) 1
Operating voltage over bus 21-32 V=;
Auxiliary voltage \(24 \mathrm{~V} \sim\);
Frequency \(50 / 60 \mathrm{~Hz}\);
Inputs voltage 0-1, 0-10 V;
Voltage input impedance \(18 \mathrm{k} \Omega\); Inputs current 0-20, 4-20 mA;
Current input impedance \(100 \Omega\);
Sensor output voltage \(24 \mathrm{~V}=\);
Sensor output current max. 100 mA ;
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
RMD 4 modules;
Dimensions (W x H x D) \(72 \times 90 \times 70 \mathrm{~mm}\); Assembling height as from DIN rail 63 mm ; Limiting values per channel 2

To record wind, precipitation, temperature and brightness, and to process the signals.
Extendable with an analogue input module 4gang order no. 75424004
Needed for operation a power supply of 24 V AC RMD order nr. 75910001

Input signals to DIN IEC 381-1, -2
- inputs parameterisable can be set individually
- input 4-20 mA will be controlled for wire break
\(\square\) with programming button and red programming LED
- with green/red status LED (operation/fault)
- with logic gates for linking the limiting value results
- delay times and hysteresis adjustable
- for active and passive sensors
- for combination weather sensor surface-mounted
\(\square\) for wind, rain, brightness, temperature, twilight as well as humidity and temperature sensor surf.-m
\(\square\) processing of the DCF77 time signal of combi sensor for input in KNX/EIB
- conclusiveness test and cyclic supervision of the combi weather sensor signals
- software protected operation supervision for wind sensor
\(\square\) bus connection via connecting terminal
- with screw terminals

\section*{Accessories}

\section*{Power supply 24 V AC RMD}
light grey \(\quad 75910001\)
Operating voltage 230 V ;
Frequency \(50 / 60 \mathrm{~Hz}\);
Output voltage \(24 \mathrm{~V} \sim ;\)
Output current max. 1 A;
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
RMD 4 modules;
Dimensions (W x H x D) \(72 \times 90 \times 70 \mathrm{~mm}\);
Assembling height as from DIN rail 63 mm
For weather station 4gang comfort RMD order no. 75414003
For analogue input 4gang RMD order no. 75414004
For analogue actuator 4gang RMD order
no. 75514001
For surface-mounted wind sensor order
no. 75900050
For surface-mounted rain sensor order no. 75900052

■ short-circuit-proof and overload proof (therma protection)
- with screw terminals


Mast adapter
black 75900046
1
Mast diameter 42 mm ;
Dimensions (W x H x D) \(70 \times 64 \times 60 \mathrm{~mm}\)
For RolloTec wind sensor order no. 017201
For surface-mounted wind sensor order
no. 75900050
For surface-mounted rain sensor order
no. 75900052
For surface-mounted brightness sensor order
no. 75900053
For surface-mounted temperature sensor order no. 75900054
For surface-mounted twilight sensor order no. 75900055
for installation of max. 4 surface-mounted sensors


Combi weather sensor surface-mounted
black \(\quad 75900057\)
1
Heating voltage via weather station \(24 \mathrm{~V} \sim\);
Rated heater current 600 mA ;
Brightness measuring range linear (3 times)
0-100 kLux (east, south, west);
Twilight measuring range linear 0-250 Lux;
Spectral area approx. 700-1050 nm;
Wind speed measuring range 1-40 m/s;
Precipitation (Yes/No) 1 Bit;
Switch on delay approx. 3 little precipitation parts;
Precipitation switch off delay approx. 2 min.;
Output load voltage > 1,5 k ;
Operating temperature \(-40-+60^{\circ} \mathrm{C}\);
Conductor cross-section min. \(6 \times 0,25 \mathrm{~mm}^{2}\);
Cable length 10 m ;
Max. cable length 50 m;
Assembly angle length 150 mm ;
Dimensions (diameter x H) \(130 \times 200 \mathrm{~mm}\)
Ensure correct orientation and free-standing installation.

For registration of wind, rainfall, sun and twilight.
For weather station 4gang comfort RMD order no. 75414003

\section*{IP55}
- for the connection to the weather station 4gang comfort RMD with voltage supply
\(\square\) with wind, precipitation, twilight and 3 brightness sensors
\(\square\) brightness measuring is possible in 3 directions
\(\square\) with radio receiver for the DCF77 signal
- DCF77 antenna \(45^{\circ}\) rotatable
- with magnet and initialisation reed contact

■ with operation/status buzzer
- conclusiveness test and cyclic supervision of the sensor signals with weather station comfort
- with PTC heater element for winter operation
\(\square\) with mounting angle and pipe clamp
- for wall and mast assembly
- confectioned with 6-core wire and plug-in terminals


■ with screw terminals


\section*{Twilight sensor surface-mounted \\ grey 75900055 \\ 1}

Operating voltage \(24 \mathrm{~V}=\);
Rated current 5 mA ;
Brightness measuring range, linear 0-255 Lux;
Output load voltage > \(1 \mathrm{k} \Omega\);
Operating temperature \(-30-+70^{\circ} \mathrm{C}\);
Conductor cross-section min. \(3 \times 0,25 \mathrm{~mm}^{2}\);
Max. cable length 100 m ;
Dimensions (W x H x D) \(58 \times 64 \times 35 \mathrm{~mm}\)
To detect ambient brightness.
For analogue input 4gang RMD order no. 75414004
For weather station 4gang comfort RMD order no. 75414003
For analogue input module 4gang RMD order no. 75424004
Mast adapter order no. 75900046

\section*{IP65}

■ passive sensor
- converts the measured values into \(0-10 \mathrm{~V}\) signals

■ with threaded joint dia. 12.5 mm (PG 7)
- with screw terminals

Order no.
Packing
unit
Order no.
Packing
\begin{tabular}{ll} 
Temperature sensor surface-mounted \\
\(\quad 7590 \mathbf{0 0 5 4}\) & 1 \\
grey & \\
Operating voltage \(24 \mathrm{~V}=\); \\
Rated current approx. 3 mA ; \\
Temperature measurement range, \\
linear \(-30-+70^{\circ} \mathrm{C}\);
\end{tabular}

Output load voltage \(>1 \mathrm{k} \Omega\);
Operating temperature \(-30-+70{ }^{\circ} \mathrm{C}\);
Conductor cross-section min. \(3 \times 0,25 \mathrm{~mm}^{2}\);
Max. cable length 100 m ;
Dimensions (W x H x D) \(58 \times 64 \times 35 \mathrm{~mm}\)
To detect ambient temperature.
For analogue input 4gang RMD order no. 75414004
For weather station 4gang comfort RMD order no.
75414003
For analogue input module 4gang RMD order no.
75424004
Mast adapter order no. 75900046
IP65
- passive sensor
- converts the measured values into \(0-10 \mathrm{~V}\) signals

■ with threaded joint dia. 12.5 mm (PG 7)
■ with screw terminals

\section*{SWITCH ACTUATORS}


\section*{Switch actuator 1gang 16 A flush-mounted} light grey

75341001
1
Operating voltage over bus 21-32 V=;
Max. switching capacity for \(230 \mathrm{~V}, 50 / 60 \mathrm{~Hz}\);
230 V incandescent lamps 2500 W ;
230 V halogen lamps 2200 W;
Electronic transformers 1000 W ;
Conventional transformers 1000 VA;
Capacitive load 10 A, max. \(105 \mu \mathrm{~F}\);
Making current max. \(400 \mathrm{~A} / 20 \mathrm{~ms}\);
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
Cable length bus+inputs approx. 33 cm , extendable to max. 5 m ;
Load cable length approx. \(20 \mathrm{~cm}, 2 \times 1,5 \mathrm{~mm}^{2}\);
Centre hole diameter \(7,5 \mathrm{~mm}\);
Dimensions (diameter xH) \(53 \times 28 \mathrm{~mm}\)
- with potential-free NO contact as well as NC contact parameterisable
- with 2 independent binary inputs for potential-free contacts
- binary input functions: Switching, dimming, shutter control and value transmitter
- with programming button and red programming LED
- programmable with ETS2 V1.3 and higher
- built into flush-mounted or splash-protected junction box
- pre-assembled, with cables

\section*{Switch actuator 2gang 6 A NO flush-mounted light grey \(\quad 753420011\)}

Operating voltage over bus 21-32 V=;
Max. switching capacity for \(230 \mathrm{~V}, 50 / 60 \mathrm{~Hz}\); 230 V incandescent and halogen lamps 1200 W ;
Electronic transformers 500 W ;
Conventional transformers 500 VA ;
Capacitive load 6 A , max. \(14 \mu \mathrm{~F}\);
Making current max. 120 A/20 ms;
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
Cable length bus+inputs approx. 33 cm , extendable to max. 5 m ;
Load cable length approx. \(20 \mathrm{~cm}, 3 \times 1,5 \mathrm{~mm}^{2}\);
Dimensions (diameter \(\times\) H) \(53 \times 28 \mathrm{~mm}\)
- for switching e.g. 2 independent loads

■ with 2 potential-free NO contacts on common entry, as well as NC contact can be parameter
- with 2 independent binary inputs for potential-free contacts
- binary input functions: Switching, dimming, shutter control and value transmitter
- with programming button and red programming LED
- programmable with ETS2 V1.3 and higher
\(\square\) built into flush-mounted or splash-protected junction box
- pre-assembled, with cables


\section*{Switch actuator 2gang 16 A NO contact, manual, status, RMD \\ light grey \(\quad 75312008 \quad 1\)}

Operating voltage over bus 21-32 V=;
Making current max. \(400 \mathrm{~A} / 150 \mu \mathrm{~s}\);
Max. switching capacity for 230 V ;
230 V incandescent and halogen lamps 2500 W ;
Conventional transformers 1200 W;
Capacitive load 16 A, max. \(140 \mu \mathrm{~F}\);
Electronic transformers 1500 W ;
Fluorescent lamps -;
uncompensated 2500 W;
parallel compensated \(1300 \mathrm{~W} / 140 \mu \mathrm{~F}\);
Lead-lag circuit \(2300 \mathrm{~W} / 140 \mu \mathrm{~F}\);
Osram electronic ballast -;
QTP 2x58W 11 units;
QT-FH 2x28W 17 units;
QT-FQ 2x54W 11 units;
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
RMD 4 modules;
Dimensions (W x H x D) \(72 \times 90 \times 70 \mathrm{~mm}\);
Assembling height as from DIN rail 63 mm
Optimised for commissioning with ETS3 from version D patch A.
\(\square\) for switching e.g. 2 independent loads
\(■\) suitable to switch different external conductors
- with potential-free NO contacts as well as NC contact parameterisable
\(\square\) with manual selection switch per channel for on/off and status indication
- manual operation also possible without bus e.g. on building site
\(\square\) with programming button and red programming LED
- bus connection via connecting terminal

■ with screw terminals

Order no.
Switch actuator 4gang 16 A NO manual
\begin{tabular}{l} 
status RMD \\
light grey
\end{tabular}
75314015

Operating voltage over bus 21-32 V=;
Making current max. \(400 \mathrm{~A} / 150 \mu \mathrm{~s}\);
Max. switching capacity for \(230 \mathrm{~V} \sim\); 230 V incandescent and halogen lamps 2500 W ; Conventional transformers 1200 W ; Capacitive load 16 A, max. \(140 \mu\) F; Electronic transformers 1500 W;
Fluorescent lamps -; uncompensated 2500 W ; parallel compensated \(1300 \mathrm{~W} / 140 \mu \mathrm{~F}\); Lead-lag circuit 2300 W/140 \(\mu \mathrm{F}\);
Osram electronic ballast -;
QTP 2x58W 11 units;
QT-FH \(2 \times 28 \mathrm{~W} 17\) units;
QT-FQ 2x54W 11 units;
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
RMD 4 modules;
Dimensions ( \(\mathrm{W} \times \mathrm{H} \times \mathrm{D}\) ) \(72 \times 90 \times 70 \mathrm{~mm}\); Assembling height as from DIN rail 63 mm

Optimised for commissioning with ETS3 from version D patch A.
- for switching e.g. 4 independent loads

■ suitable to switch different external conductors
- with potential-free NO contacts as well as NC contact parameterisable
- with manual selection switch per channel for on/off and status indication
- manual operation also possible without bus e.g. on building site
- with programming button and red programming LED
- bus connection via connecting terminal
- with screw terminals

Order no.
Packing
unit
\begin{tabular}{|c|c|}
\hline  & \begin{tabular}{l}
Switch actuator 4gang 16 A C load NO manual status RMD with current detection \\
light grey \\
75314016
\end{tabular} \\
\hline & \begin{tabular}{l}
Operating voltage over bus 21-32 V=; \\
Making current max. 600 A/150 \(\mu \mathrm{s}\); \\
Max. switching capacity for \(230 \mathrm{~V} \sim\); \\
230 V incandescent and halogen lamps 3680 W ; \\
Conventional transformers 2000 W; \\
Capacitive load 16 A, max. \(200 \mu \mathrm{~F}\); \\
Electronic transformers 2500 W; \\
Fluorescent lamps -; \\
uncompensated 3680 W ; \\
Compensated 2500 W/200 \(\mu \mathrm{F}\); \\
Lead-lag circuit \(2500 \mathrm{~W} / 200 \mu \mathrm{~F}\); \\
Osram electronic ballast -; \\
QTP 2x58W 17 units; \\
QT-FH 2x28W 25 units; \\
QT-FQ \(2 \times 54 \mathrm{~W} 17\) units; \\
Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\); \\
RMD 4 modules; \\
Dimensions (W x H x D) \(72 \times 90 \times 70 \mathrm{~mm}\); \\
Assembling height as from DIN rail 63 mm
\end{tabular} \\
\hline & Optimised for commissioning with ETS3 from version D patch A. \\
\hline & \begin{tabular}{l}
for switching e.g. 4 independent capacitive loads \\
suitable to switch different external conductors \\
with potential-free NO contacts as well as NC contact parameterisable \\
■ with manual selection switch per channel for on/off and status indication \\
manual operation also possible without bus e.g. on building site \\
with programming button and red programming LED \\
- bus connection via connecting terminal \\
■ with screw terminals
\end{tabular} \\
\hline
\end{tabular}


\section*{Switch actuator 4gang 16 A C load NO manual status RMD with current detection}

Operating voltage over bus 21-32 V=;
Making current max. 600 A/150 \(\mu \mathrm{s}\);
Max. switching capacity for \(230 \mathrm{~V} \sim\); 230 V incandescent and halogen lamps 3680 W; Conventional transors 2000 W ;
acitive load 16 A, max. 200 HF
transformers 2500 W

Compensated 2500 W/200 \(\mu \mathrm{F}\);
Lead-lag circuit \(2500 \mathrm{~W} / 200 \mu \mathrm{~F}\);
electronic ballast -,
QTP \(2 \times 58 \mathrm{~W} 17\) units
QT FQ \(2 \times 54 \mathrm{~W} 17\) units;
Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\);
RMD 4 modules;
Dimensions (W x H x D) \(72 \times 90 \times 70 \mathrm{~mm}\);

Optimised for commissioning with ETS3 from version D patch A.

■ for switching e.g. 4 independent capacitive loads
\(\square\) suitable to switch different external conductors
- with potential-free NO contacts as well as NC contact parameterisable
- with manual selection switch per channel for on/off
- manual operation also possible without bus e.g. on building site LED

■ with screw terminals

\section*{Switch actuator 6gang 6 A NO RMD light grey \(\quad 75316002\)}

Operating voltage over bus 21-32 V=;
Max. switching capacity for 230 V ;
230 V incandescent lamps 1000 W;
Fluorescent lamps -;
uncompensated at \(\cos \varphi 0.5=500 \mathrm{~W}\);
parallel compensated at \(\cos \varphi 1=108 \mathrm{~W} / 14 \mu \mathrm{~F}\);
Duo circuit at \(\cos \varphi \quad 1=2 \times 500 \mathrm{~W}\);
with Siemens EVG \(15 \times 18,15 \times 36,10 \times 58 \mathrm{~W}\)
Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\);
RMD 4 modules;
Dimensions (W x H x D) \(72 \times 90 \times 65 \mathrm{~mm}\);
Assembling height as from DIN rail 58 mm
- for switching e.g. 6 independent loads

■ suitable to switch different external conductors
■ with potential-free NO contacts as well as NC contact parameterisable
■ with programming button and red programming LED
■ bus connection via connecting terminal
■ with screw terminals

Order no.
Order no.


\section*{Switch actuator 8gang 16 A C load NO manual status RMD with current detection \\ light grey 75318005 \\ 1}

Operating voltage over bus \(21-32 \mathrm{~V}=\);
Making current max. \(600 \mathrm{~A} / 150 \mu \mathrm{~s}\);
Max. switching capacity for \(230 \mathrm{~V} \sim\);
230 V incandescent and halogen lamps 3680 W ;
Conventional transformers 2000 VA;
Capacitive load 16 A, max. \(200 \mu\) F;
Electronic transformers 2500 W ;
Fluorescent lamps -;
uncompensated 3680 W ;
Compensated \(2500 \mathrm{~W} / 200 \mu \mathrm{~F}\);
Lead-lag circuit \(2500 \mathrm{~W} / 200 \mu \mathrm{~F}\);
Osram electronic ballast -;
QTP 2x58W 17 units;
QT-FH \(2 \times 28 \mathrm{~W} 25\) units;
QT-FQ 2x54W 17 units;
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
RMD 8 modules;
Dimensions ( \(\mathrm{W} \times \mathrm{H} \times \mathrm{D}\) ) \(144 \times 90 \times 70 \mathrm{~mm}\);
Assembling height as from DIN rail 63 mm
Optimised for commissioning with ETS3 from version D patch A.
- for switching e.g. 8 independent capacitive loads - suitable to switch different external conductors
- with potential-free NO contacts as well as NC contact parameterisable
- with manual selection switch per channel for on/off and status indication
- manual operation also possible without bus e.g. on building site
- with programming button and red programming LED
- bus connection via connecting terminal
- with screw terminals

Order no.
Packing
unit

\section*{Switch actuator/shutter actuator 8/4gang 16 A NO manual status RMD \\ light grey \(\quad 75318003\)}

Operating voltage over bus 21-32 V=;
Auxiliary voltage \(230 \mathrm{~V} \sim\);
Frequency \(50 / 60 \mathrm{~Hz}\);
Making current max. \(800 \mathrm{~A} / 200 \mu \mathrm{~s}\);
Max. switching capacity for \(230 \mathrm{~V} \sim\);
230 V incandescent lamps 3000 W ;
230 V halogen lamps 2500 W ;
Conventional transformers 1500 W ;
Capacitive load 16 A, max. \(140 \mu\) F;
Electronic transformers 1800 W;
Fluorescent lamps -;
uncompensated 1000 W ;
Compensated \(1160 \mathrm{~W} / 140 \mu \mathrm{~F}\);
Lead-lag circuit 2300 W/140 \(\mu\) F;
Osram electronic ballast -;
QTP 2x58W 11 units;
QT-FH 2x28W 17 units;
QT-FQ 2x54W 11 units;
electric drives 1300 VA;
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
RMD 4 modules;
Dimensions (W x H x D) \(72 \times 90 \times 70 \mathrm{~mm}\);
Assembling height as from DIN rail 63 mm
Optimised for commissioning with ETS3 from version D patch A.
\(\square\) for switching e.g. 8 independent loads or activation of 4 drives
- any combined operation from drive and switching functions possible
■ suitable to switch different external conductors
■ with potential-free NO contacts as well as NC contact parameterisable
■ 4 manual operation buttons for channel/device for on/off (up/down) and bus function On/Off
■ manual operation also possible without bus e.g. on building site
- with programming button and red programming LED
■ with 8 red status LEDs and 3 red LEDs as manual actuation indication
■ bus connection via connecting terminal
■ with screw terminals

Order no.
Packing
unit


Switch actuator/shutter actuator 16/8gang 16 A NO manual status RMD light grey \(\quad 75310002\)
Operating voltage over bus 21-32 V=;
Auxiliary voltage \(230 \mathrm{~V} \sim\);
Frequency \(50 / 60 \mathrm{~Hz}\);
Making current max. \(800 \mathrm{~A} / 200 \mu \mathrm{~s}\);
Max. switching capacity for 230 V ;
230 V incandescent lamps 3000 W ;
230 V halogen lamps 2500 W ;
Conventional transformers 1500 W ;
Capacitive load 16 A, max. \(140 \mu\) F;
Electronic transformers 1800 W;
Fluorescent lamps -;
uncompensated 1000 W ;
Compensated 1160 W/140 \(\mu \mathrm{F}\);
Lead-lag circuit 2300 W/140 \(\mu\) F;
Osram electronic ballast -;
QTP 2x58W 11 units;
QT-FH \(2 \times 28 \mathrm{~W} 17\) units;
QT-FQ 2x54W 11 units;
electric drives 1300 VA;
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
RMD 8 modules;
Dimensions (W x H x D) \(144 \times 90 \times 70 \mathrm{~mm}\);
Assembling height as from DIN rail 63 mm
Optimised for commissioning with ETS3 from version D patch A.
- for switching e.g. 16 independent loads or activation of 8 drives
- any combined operation from drive and switching functions possible
■ suitable to switch different external conductors
- with potential-free NO contacts as well as NC contact parameterisable
■ 4 manual operation buttons for channel/device for on/off (up/down) and bus function On/Off
- manual operation also possible without bus e.g. on building site
- with programming button and red programming LED
■ with 16 red status LEDs and 3 red LEDs as manual actuation indication
■ bus connection via connecting terminal
■ with screw terminals

Order no.

\section*{COMBINATION ACTUATORS}

\section*{Combination actuator}


\section*{Window interface 1/1gang flush-mounted \\ light grey \\ 75341006 \\ Operating voltage over bus \(21-32 \mathrm{~V}=\);}

Max. switching capacity for \(230 \mathrm{~V}, 50 / 60 \mathrm{~Hz}\);
Switching power max. 1 motor 600 VA;
Switching current for electronic outputs max. 25 mA ;
Actuator drives per channel max. 2;
Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\);
Cable length bus+inputs approx. 33 cm , extendable to max. 5 m ;
Load cable length approx. \(20 \mathrm{~cm}, 2 \times 1,5 \mathrm{~mm}^{2}\);
Dimensions (diameter \(\times \mathrm{H}\) ) \(53 \times 28 \mathrm{~mm}\)
Follow the motor manufacturers` instructions!
For commissioning with the ETS3 for version D patch A.
Suitable valve drive order no. 75900076
\(\square\) for activation of a drive for alternating current
- with 2 potential-free contacts, mechanically interlocked
■ Operating mode can be set for blind, shutter/ awning or ventilation flap
\(\square 1\) electronic output (triac) for connection of 230 V thermoelectric actuator drives
- for individual single room control
- for continuous (PI) or switched (2-point) control
\(\square\) with emergency programme e.g. for sensor or bus failure
- with 3 independent binary inputs for potential-free contacts
- binary input functions: Switching, dimming, shutter control and value transmitter
\(\square\) switching time on change of direction programmable
- with programming button and red programming LED
■ built into flush-mounted or splash-protected junction box
\begin{tabular}{|c|}
\hline \multirow[t]{5}{*}{} \\
\hline \\
\hline \\
\hline \\
\hline \\
\hline
\end{tabular}

Order no.
Packing
unit

\section*{Room actuator 4/2gang 16 A NO contact, manual, status, REG \\ light grey \(\quad 75314019\)}

1
Operating voltage over bus \(21-32 \mathrm{~V}=\);
Auxiliary voltage 230 V ;
Making current max. \(800 \mathrm{~A} / 200 \mu \mathrm{~s}\);
Max. switching capacity for 230 V ;
230 V incandescent lamps 3000 W;
230 V halogen lamps 2500 W ;
Conventional transformers 1200 W ;
Electronic transformers 1500 W ;
Fluorescent lamps uncompensated 1000 W;
Fluorescent lamps parallel compensated
1160 W/140 \(\mu \mathrm{F}\);
Lead-lag circuit \(2300 \mathrm{~W} / 140 \mu \mathrm{~F}\); Osram EVG QTP 2x58W 11 Units; Osram EVG QT-FH 4x14W 10 Units; Osram EVG QT-FQ 2x54W 11 Units; Switching current for electronic outputs max. 50 mA ; Actuator drives per channel max. 4;
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
RMD 4 modules;
Dimensions (W x H x D) \(72 \times 90 \times 70 \mathrm{~mm}\); Assembling height as from DIN rail 63 mm

Follow the motor manufacturers` instructions!
For commissioning with the ETS3 for version D patch A.
- 4 outputs for switching from independent loads or activation of 2 drives
- with 4 potential-free NO contacts as well as normally-closed contact can be parameterised
■ any combined operation from drive and switching functions possible
- suitable to switch different external conductors
\(\square 2\) additional electronic outputs (Triac) for connecting thermoelectric valve drives
- for individual single room control

■ for continuous (PI) or switched (2-point) control
- with emergency programme e.g. for sensor or bus failure
■ 4 manual operation buttons for channel/device for on/off (up/down) and bus function On/Off
- manual operation also possible without bus e.g. on building site
- with programming button and red programming LED
- with 6 red status LEDs and 3 red LEDs as manual actuation indication
- bus connection via connecting terminal
- with screw terminals

Order no.


\section*{light grey \(\quad 75341004\)}
actuator 1gang 3 A flush-mounted

Operating voltage over bus \(21-32 \mathrm{~V}=\);
Max. switching capacity for \(230 \mathrm{~V}, 50 / 60 \mathrm{~Hz}\);
Switching power max. 1 motor 600 VA;
Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\);

Cable length bus+inputs approx. 33 cm , extendable to max. 5 m ;
Load cable length approx. \(20 \mathrm{~cm}, 3 \times 1,5 \mathrm{~mm}^{2}\); Dimensions (diameter \(\times \mathrm{H}\) ) \(53 \times 28 \mathrm{~mm}\)

Follow the motor manufacturers` instructions!
For commissioning with the ETS3 for version D patch A.
- for activation of a drive for alternating current
- with 2 potential-free contacts, mechanically interlocked
■ with 3 independent binary inputs for potential-free contacts
\(\square\) binary input functions: Switching, dimming, shutter control and value transmitter
■ Operating mode can be set for blind, shutter/ awning or ventilation flap
■ switching time on change of direction programmable
■ with programming button and red programming LED
\(\square\) built into flush-mounted or splash-protected junction box
- pre-assembled, with cables


\section*{Roller shutter actuator 4gang 230 V AC/2gang} 12-48 V DC hand, status RMD
light grey \(\quad 75314018\)
1
Operating voltage over bus \(21-32 \mathrm{~V}=\);
Auxiliary voltage \(230 \mathrm{~V} \sim\);
Frequency \(50 / 60 \mathrm{~Hz}\);
Max. switching capacity for \(230 \mathrm{~V} \sim\);
Frequency \(50 / 60 \mathrm{~Hz}\);
Switching current at \(\cos \varphi 0.8\) max. 6 A;
Max. switching current at \(24 \mathrm{~V}=\);
Switching current max. 6 A;
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
RMD 4 modules;
Dimensions (W \(\times \mathrm{H} \times \mathrm{D}\) ) \(72 \times 90 \times 70 \mathrm{~mm}\);
Assembling height as from DIN rail 63 mm
Follow the motor manufacturers` instructions!
For commissioning with the ETS3 for version D patch A.
\(\square\) for activation max. 4 independent AC or 2 independent DC drives
■ suitable to switch different external conductors
■ 4 manual operation buttons for channel/device for on/off (up/down) and bus function On/Off
■ manual operation also possible without bus e.g. on building site
■ with programming button and red programming LED
■ with 8 red status LEDs and 3 red LEDs as manual actuation indication
■ bus connection via connecting terminal
■ with screw terminals

Order no.
Packing
unit


\section*{Shutter actuator 4gang 6 A 24 V DC manual status RMD \\ light grey \\ 75314011 \\ 1}

Operating voltage over bus 21-32 V=;
Supply voltage by channel A1 + 2 with max. \(24 \mathrm{~V}=\) (+/- 10\%);
Max. switching current at \(24 \mathrm{~V}=\);
Switching current max. 6 A;
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
RMD 4 modules;
Dimensions (W \(\times \mathrm{H} \times \mathrm{D}\) ) \(72 \times 90 \times 65 \mathrm{~mm}\);
Assembling height as from DIN rail 58 mm
Follow the motor manufacturers` instructions!

An external power supply \(24 \mathrm{~V}=\) with protective disconnection is necessary!

Recommendation of power supply units:
Messrs. Elka type: SV230-24.1250DC order no. 14001915
Messrs. Elka type: SV230-24.2500DC order no. 14001916
Messrs. Phoenix type: STEP-PS-100-
240AC/24DC/1.5 order no. 2938947
\(\square\) for activation of max. 4 independent \(24 \mathrm{~V}=\) drives
■ \(2 \times 2\)-channel operation possible
- operating mode can be set for shutters or blinds
- switching time on change of direction programmable
■ shutter operation concept short-long-short and long-short parameterisable
■ switchover with lockout of KNX/EIB function to permanent manual operation including master stop
- manual operation also possible without bus e.g. on building site
- with programming button and red programming LED
- with 8 red status LEDs and 3 red LEDs as manual actuation indication
- reduced wiring complexity, one entry for every 2 contacts
- bus connection via connecting terminal

■ with screw terminals

Roller shutter actuator 8gang 230 V AC/4gang
12-48 V DC Hand, status, REG
light grey \(\quad 75318008\)
1
Operating voltage over bus 21-32 V=;
Auxiliary voltage 230 V ;
Frequency \(50 / 60 \mathrm{~Hz}\);
Max. switching current at \(230 \mathrm{~V} \sim\);
Switching current at \(\cos \varphi 0.8\) max. 6 A;
Max. switching current at \(24 \mathrm{~V}=\);
Switching current max. 6 A ;
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
RMD 8 modules;
Dimensions ( \(\mathrm{W} \times \mathrm{H} \times \mathrm{D}\) ) \(144 \times 90 \times 70 \mathrm{~mm}\);
Assembling height as from DIN rail 63 mm
Follow the motor manufacturers` instructions!
For commissioning with the ETS3 for version D patch A.
\(\square\) for activation max. 8 independent AC or 4 independent DC drives
- suitable to switch different external conductors
- 4 manual operation buttons for channel/device for on/off (up/down) and bus function On/Off
- manual operation also possible without bus e.g. on building site
- with programming button and red programming LED
- with 16 red status LEDs and 3 red LEDs as manual actuation indication
- bus connection via connecting terminal
- with screw terminals

\section*{Blind actuators}


\section*{Roller shutter actuator 4gang 6 A 230 V} manual RMD
light grey \#75314013 1 \(50 / 60 \mathrm{~Hz}\)
Operating voltage over bus 21-32 V=;
Auxiliary voltage \(110 / 230 \mathrm{~V} \sim\);
Max. switching current at \(110 / 230 \mathrm{~V} \sim\);
Switching current at \(\cos \varphi 0.8\) max. 6 A;
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
RMD 4 modules;
Dimensions (W \(\times \mathrm{H} \times \mathrm{D}\) ) \(72 \times 90 \times 65 \mathrm{~mm}\);
Assembling height as from DIN rail 58 mm
Please follow the guidelines of the motor manufacturer!

Roller shutter actuator 4gang REG, order no. 75314022.
- for activation of max. 4 independent \(230 \mathrm{~V} \sim\) drives

■ suitable to switch different external conductors
- operating mode only roller shutters
- switching time on change of direction programmable
- switchover with lockout of KNX/EIB function to permanent manual operation including master stop
- manual operation also possible without bus e.g. on building site
- with programming button and red programming LED
- with 8 red status LEDs and 3 red LEDs as manual actuation indication
- reduced wiring complexity, one entry for every 2 contacts
- bus connection via connecting terminal
- with screw terminals


\section*{Roller shutter actuator 4gang REG} light grey *75314022

1
Operating voltage over bus 21-32 V=;
Auxiliary voltage \(230 \mathrm{~V} \sim\);
Frequency \(50 / 60 \mathrm{~Hz}\);
Max. switching capacity for 230 V ; Frequency \(50 / 60 \mathrm{~Hz}\);
Switching current at \(\cos \varphi 0.8\) max. 6 A;
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
RMD 4 modules;
Dimensions (W xH x D) \(72 \times 90 \times 70 \mathrm{~mm}\);
Assembling height as from DIN rail 63 mm
Follow the motor manufacturers` instructions!

\section*{Available from 03/2011}
- for activation of max. 4 independent \(230 \mathrm{~V} \sim\) drives

■ suitable to switch different external conductors
- operating mode only roller shutters
- switching time on change of direction programmable
- 4 manual operation buttons for channel/device for on/off (up/down) and bus function On/Off
- manual operation also possible without bus e.g. on building site
- with programming button and red programming LED
- with 8 red status LEDs and 3 red LEDs as manual actuation indication
- bus connection via connecting terminal
- with screw terminals

\section*{DIM ACTUATORS}


Universal dim actuator 1gang 210 W/VA flush-mounted

\section*{light grey \(\quad 75341003\)}

Operating voltage over bus 21-32 V=;
Control voltage \(230 \mathrm{~V} \sim\);
Frequency \(50 / 60 \mathrm{~Hz}\);
230 V incandescent and halogen lamps 50-210 W;
Electronic transformers 50-210 W;
Dimmable conventional transformers 50-210 VA;
Tronic or LV power boosters built-in/RMD max. 10 for same load type;
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
Cable length bus+inputs approx. 33 cm , extendable to max. 5 m;
Load cable length approx. \(20 \mathrm{~cm}, 2 \times 1,5 \mathrm{~mm}^{2}\);
Dimensions (diameter \(\times\) H) \(53 \times 28 \mathrm{~mm}\)
Trouble-free operation will be obtained only with Berker Tronic transformers.

Do not connect conventional transformers together with electronic transformers to one output.
- with 2 independent binary inputs for potential-free contacts
■ binary input functions: Switching, dimming, shutter control and value transmitter
- bulb-preserving soft startup

■ short-circuit and overload proof (electronic fuse)
- phase cut-on or cut-off according to load type, self-learning
- with programming button and red programming LED
- programmable with ETS2 V1.3 and higher
- for flush-mounted box
- pre-assembled, with cables

\section*{Order no.}

Order no.
Packing


Auxiliary voltage 230 V ;
Control voltage 110-230 V~;
Frequency \(50 / 60 \mathrm{~Hz}\);
230 V incandescent and halogen lamps 20-500 W; Electronic transformers 20-500 W;
Dimmable conventional transformers 20-500 VA;
Universal power boosters max. on request;
Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\);
RMD 4 modules;
Dimensions (W x H x D) \(72 \times 90 \times 70 \mathrm{~mm}\);
Assembling height as from DIN rail 63 mm
Trouble-free operation will be obtained only with Berker Tronic transformers.

Please do not connect conventional transformers together with electronic transformers.

Optimised for putting into operation with the ETS3 from version \(D\) patch \(A\).

\section*{Available from 03/2011}

■ bulb-preserving soft startup
■ short-circuit and overload proof (electronic fuse)
- phase cut-on or cut-off according to load type, self-learning
\(■\) also useable as speed controller for single-phase motors
■ 4 manual operation buttons for channel/device for on/off (up/down) and bus function On/Off
■ manual operation also possible without bus e.g. on building site
■ stairway function with switch-off warning according to DIN 18015-2
- operating hours counter as forward or backward counter per channel
■ with programming button and red programming LED
\(\square\) bus connection via connecting terminal
■ with screw terminals
```

Universal dim actuator 1gang 500 W/VA RMD
light grey \#75311007
Operating voltage over bus 21-32 V=;
Control voltage 230 V~;
Frequency 50/60 Hz;
230 V incandescent and halogen lamps 50-500 W;
Electronic transformers 50-500 W;
Dimmable conventional transformers 50-500 VA;
Universal power boosters max. }10\mathrm{ phase cut-off á
500 W;
Universal power boosters max. 5 phase cut-on
á 420 VA;
Tronic or LV power boosters built-in/RMD max. }10\mathrm{ for
same load type;
Operating temperature -5-+45 '}\textrm{C}\mathrm{ ;
RMD 4 modules;
Dimensions (W x H x D) 72 x 90 x 65 mm;
Assembling height as from DIN rail }58\textrm{mm
Trouble-free operation will be obtained only with Berker Tronic transformers.
Do not connect conventional transformers together with electronic transformers.
■ bulb-preserving soft startup
$\square$ short-circuit and overload proof (electronic fuse)

- phase cut-on or cut-off according to load type, self-learning
■ expandable by universal power boosters RMD Plus with load cable switched in parallel
■ with programming button and red programming LED
■ bus connection via connecting terminal
■ with screw terminals

```

Order no.
Packing
Order no.
\(\quad\)\begin{tabular}{l} 
Universal dim actuator 2gang RMD \\
\(\qquad 75312013\)
\end{tabular}
Operating voltage over bus \(21-32 \mathrm{~V}=\);
Auxiliary voltage \(230 \mathrm{~V} \sim\);
Control voltage \(110-230 \mathrm{~V} \sim\);
Frequency \(50 / 60 \mathrm{~Hz}\);

Frequency \(50 / 60 \mathrm{~Hz}\);
230 V incandescent and halogen lamps 20-300 W/ channel;
Electronic transformers 20-300 W/channel;
Dimmable conventional transformers 20-300 VA/ channel;
Universal power boosters max. on request;
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
RMD 4 modules;
Dimensions (W x H x D) \(72 \times 90 \times 70 \mathrm{~mm}\);
Assembling height as from DIN rail 63 mm
Trouble-free operation will be obtained only with Berker Tronic transformers.

Do not connect conventional transformers together with electronic transformers on the same output.

Optimised for commissioning with ETS3 from version D patch A.

\section*{Available from 03/2011}

■ suitable for different external conductors
■ bulb-preserving soft startup
\(■\) short-circuit and overload proof (electronic fuse)
- phase cut-on or cut-off according to load type, self-learning
■ expandable by universal power boosters RMD Plus with load cable switched in parallel
- 4 manual operation buttons for channel/device for on/off (up/down) and bus function On/Off
■ manual operation also possible without bus e.g. on building site
\(\square\) stairway function with switch-off warning according to DIN 18015-2
- operating hours counter as forward or backward counter per channel
- with programming button and red programming LED
■ bus connection via connecting terminal
- with screw terminals

\section*{Order no.}

\section*{Universal dim actuator 4gang RMD *75314021}

NEW
1
Operating voltage over bus 21-32 V=;
Auxiliary voltage 230 V~;
Frequency \(50 / 60 \mathrm{~Hz}\);
Control voltage 110-230 V~;
Frequency \(50 / 60 \mathrm{~Hz}\);
230 V incandescent and halogen lamps 20-250 W/ channel;
Electronic transformers 20-250 W/channel;
Dimmable conventional transformers 20-250 VA/ channel;
Universal power boosters max. on request;
Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\);
RMD 8 modules;
Dimensions (W x H x D) \(144 \times 90 \times 70 \mathrm{~mm}\);
Assembling height as from DIN rail 63 mm
Trouble-free operation will be obtained only with Berker Tronic transformers.

Do not connect conventional transformers together with electronic transformers on the same output.

Optimised for commissioning with ETS3 from version \(D\) patch \(A\).

\section*{Available from 03/2011}

■ suitable for different external conductors
■ bulb-preserving soft startup
■ short-circuit and overload proof (electronic fuse)
- increase of output power by parallel switching of several channels
- phase cut-on or cut-off according to load type, self-learning
■ expandable by universal power boosters RMD Plus with load cable switched in parallel
■ 4 manual operation buttons for on/off (brighter/ darker) and bus function on/off per channel / device
■ manual operation also possible without bus e.g. on building site
- stairway function with switch-off warning according to DIN 18015-2
- operating hours counter as forward or backward counter per channel
■ with programming button and red programming LED
■ with 4 red status LEDs and 3 red LEDs as manual actuation indication
- bus connection via connecting terminal

■ with screw terminals

\section*{Universal dim actuator 4gang 210 W/VA manual, status, RMD}
light grey \#75314017
Operating voltage over bus 21-32 V=;
Auxiliary voltage 230 V~;
Frequency \(50 / 60 \mathrm{~Hz}\);
Control voltage 230 V ;
Frequency \(50 / 60 \mathrm{~Hz}\);
230 V incandescent and halogen lamps 20-210 W/ channel;
Electronic transformers 20-210 W/channel; Dimmable conventional transformers 20-210 VA/ channel;
Universal power boosters max. 10 phase cut-off á 500 W;
Tronic or LV power boosters built-in/RMD max. 10 for same load type;
Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\);
RMD 8 modules;
Dimensions (W x H x D) \(144 \times 90 \times 70 \mathrm{~mm}\);
Assembling height as from DIN rail 63 mm
Trouble-free operation will be obtained only with Berker Tronic transformers.

Do not connect conventional transformers together with electronic transformers on the same output.

Optimised for commissioning with ETS3 from version D patch A.

■ suitable for different external conductors
■ bulb-preserving soft startup
- short-circuit and overload proof (electronic fuse)
- phase cut-on or cut-off according to load type, self-learning
■ expandable by universal power boosters RMD Plus with load cable switched in parallel
■ 4 manual operation buttons for on/off (brighter/ darker) and bus function on/off per channel / device
- manual operation also possible without bus e.g. on building site
- with programming button and red programming LED
- with 4 red status LEDs and 3 red LEDs as manual actuation indication
\(\square\) bus connection via connecting terminal
■ with screw terminals

Order no.
Packing
unit

\section*{Control units 1-10 V}


Control unit 3gang 1-10 V 16 A manual status RMD
light grey \(\quad 75313005\)
Operating voltage over bus \(21-32 \mathrm{~V}=\);
Control current per channel 100 mA ;
Max. switching current at \(230 \mathrm{~V} \sim\);

Switching current 16 A;
Capacitive load 1000 W, \(140 \mu \mathrm{~F}\);
Insta EVG -;
EVG TC 1-10 V single flame 15 ;
EVG TC 1-10 V double flame 12;
Osram electronic ballast -;
QT-FH 1x28W 17 units;
QT-FH 2x28W 17 units;
QT-FQ 2x80W 11 units;
Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\);
Input cable length max. 500 m with \(0,5 \mathrm{~mm}^{2}\); RMD 4 modules;
Dimensions (W x H x D) \(72 \times 90 \times 65 \mathrm{~mm}\); Assembling height as from DIN rail 58 mm

\section*{Interface to DIN EN 60928}
\(\square\) for switching and controlling electronic ballasts and Tronic transformers with 1-10 V interface
■ suitable to switch different external conductors
■ with potential-free NO contacts
- basic brightness programmable
\(\square\) with manual selection switch per channel for on/off and status indication
■ manual operation also possible without bus e.g. on building site
\(\square\) behaviour in the event of bus voltage failure parameterisable
- with programming button

■ with red programming LED and red status LED
\(\square\) bus connection via connecting terminal
■ with screw terminals

Order no.
Packing
unit
ANALOGUE ACTUATORS
\begin{tabular}{|c|c|}
\hline ******* & Analogue actuator 4gang RMD \\
\hline & light grey \(\quad 75514001\) \\
\hline \multirow[t]{5}{*}{} & \begin{tabular}{l}
Operating voltage over bus 21-32 V=; \\
Auxiliary voltage \(24 \mathrm{~V} \sim\); \\
Frequency \(50 / 60 \mathrm{~Hz}\); \\
Outputs voltage 0-1; 0-10 V; \\
Output load voltage \(>1 \mathrm{k} \Omega\); \\
Outputs current 0-20, 4-20 mA; \\
Output load impedance \(<500 \Omega\); \\
Output current max. \(20 \mathrm{~mA} /\) channel; \\
Current consumption max. 170 mA ; \\
Forced guides (1 bit objects) per channel 2; \\
Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\); \\
RMD 4 modules; \\
Dimensions (W x H x D) \(72 \times 90 \times 70 \mathrm{~mm}\); \\
Assembling height as from DIN rail 63 mm
\end{tabular} \\
\hline & The analogue actuator receives instabus KNX/EIB telegrams and converts them into current and/or voltage signals, e.g. for heating, air conditioning and ventilation systems. \\
\hline & Needed for operation a power supply of 24 V AC RMD order no. 75910001 \\
\hline & Output signals DIN IEC 381 \\
\hline & \begin{tabular}{l}
with 4 independant analogue outputs \\
channels can be adjusted independently \\
cyclic supervision of the outputs \\
initial status via status- and/or switch object \\
evaluable \\
extendable with an analogue actuator module 4gang \\
with system interface for analogue actuator module \\
with programming button \\
with red programming LED \\
with green/red status LED (operation/fault) \\
bus connection via connecting terminal \\
with screw terminals
\end{tabular} \\
\hline
\end{tabular}

\section*{Analogue actuator modules}


\section*{Analogue actuator module 4gang RMD} light grey \(\quad 75524001\)
Operating voltage over bus \(21-32 \mathrm{~V}=\);
Auxiliary voltage \(24 \mathrm{~V} \sim\);
Frequency \(50 / 60 \mathrm{~Hz}\);
Outputs voltage 0-1; 0-10 V;
Output load voltage \(>1 \mathrm{k} \Omega\);
Outputs current 0-20, 4-20 mA;
Output load impedance \(<500 \Omega\);
Output current max. \(20 \mathrm{~mA} /\) channel;
Current consumption max. 170 mA ;
Forced guides (1 bit objects) per channel 2;
Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\);
RMD 4 modules;
Dimensions (W x H x D) \(72 \times 90 \times 70 \mathrm{~mm}\);
Assembling height as from DIN rail 63 mm
Extension for analogue actuator order no. 75514001
Output signals DIN IEC 381
■ with 4 independant analogue outputs
- cyclic supervision of the outputs

■ as extension for analogue actuator 4 gang
- with system plug for connection to the analogue actuator system interface
■ with green/red status LED (operation/fault)
- with 4 yellow output status LEDs

■ with screw terminals

Order no.

\section*{Valve drive KNX/EIB}
polar white \(\quad 75500002\)
1
Operating voltage over bus \(21-32 \mathrm{~V}=\);
Running time \(25 \mathrm{~s} / \mathrm{mm}\);
Stroke \(4,5 \mathrm{~mm}\);
Medium temperature max. \(100^{\circ} \mathrm{C}\)
Operating temperature \(0-50^{\circ} \mathrm{C}\);
Union nut M30 x \(1,5 \mathrm{~mm}\);
Pre-assembled cables approx. 1 m ; Dimensions (W x H x D) \(46 \times 87 \times 60 \mathrm{~mm}\)

IP42 with horizontal installation and IP43 with vertical installation
Required for commissioning programming magnet order no. 75900019
\(\square\) suitable for Heimeier heater valve tappets
\(\square\) with 2 independent binary inputs
\(\square\) to connect potential-free contacts (e.g. Reed)
\(\square\) with programming reed contact and red programming LED

\section*{Accessories: Programming magnet}
white, for replacement \(7590 \mathbf{0 0 1 9} 1\) need

■ for programming reed contact


\section*{Valve drive 230 V}
polar white \(\quad 75900076\)
1
230 V , 0-60 Hz, \(230 \mathrm{~V}=\)
Power consumption 1,8 W
Stroke 4 mm;
Running time \(45 \mathrm{~s} / \mathrm{mm}\);
Medium temperature max. 0-100 \({ }^{\circ} \mathrm{C}\);
Operating temperature \(0-60^{\circ} \mathrm{C}\);
Pre-assembled cables approx. 1 m ;
Dimensions (W x H x D) \(44 \times 60 \times 61 \mathrm{~mm}\)
Neutral conductor necessary!

Order valve adapter separately.
Room thermostat with change-over order no. 2026 .
Room thermostat with NC contact order no. 2030 ..
Floor thermostat with NO contact order no. 2034 ..
Heating actuator 6gang order no. 75316003
IP54
\(\square\) with state indication (opened or closed)
■ with anti-dismantling protection
■ closed in de-energized state
- with overheating protection
\(\square\) thermoelectric mode of operation
■ for plug-in cover
■ pluggable connection cable

Order no.


Valve drive 24 V
polar white \(\quad 75900077\)

1
\(24 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}, 24 \mathrm{~V}=\)
Power consumption 1,8 W;
Stroke 4 mm ;
Running time \(45 \mathrm{~s} / \mathrm{mm}\);
Medium temperature max. 0-100 \({ }^{\circ} \mathrm{C}\);
Operating temperature \(0-60^{\circ} \mathrm{C}\);
Pre-assembled cables approx. 1 m ;
Max. cable length 200 m;
Dimensions (W x H x D) \(44 \times 60 \times 61 \mathrm{~mm}\)
Order valve adapter separately.
Room thermostat with NC contact order no. 2031.
Heating actuator 12gang order no. 75330001
Heating actuator 6gang order no. 75336001
IP54
- with state indication (opened or closed)

■ with anti-dismantling protection
- closed in de-energized state

■ with overheating protection
- thermoelectric mode of operation
- for plug-in cover

■ pluggable connection cable


\section*{Valve adapter}
grey, VA10, Dumser, 75900072

Simplex, Beulco
(from 2005)
dark grey, VA50 75900073
Cazzaniga, Honeywell
\& Braukmann, Landis
\& Gyr, Frese, Reich
(distributor), KaMo
light grey, VA80, 75900075
Comap, Empur,
Heimeier, Herb, IVAR,
MNG, Onda, Oventrop,
Schlösser, Strawa, TA,
Thermot.
polar white, VA78, \(\quad \mathbf{7 5 9 0} \mathbf{0 0 7 4} 1\)
flange, for Danfoss
valves Type: RA
Union nut M30 x 1,5 mm

For valve drive order no. 759000 76, 75900077

■ for valve drive 230 V or actuator drive 24 V

Order no.

\section*{heating actuators}


Heating actuator 1gang 230 V AC flush-mounted
light grey \(\quad 75341005\)

Operating voltage 21-32 V=;
Switching current for electronic outputs max. 25 mA ;
Actuator drives per channel max. 2;
Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\);
Cable length bus+inputs approx. 33 cm , extendable to max. 5 m ;
Load cable length approx. \(20 \mathrm{~cm}, 2 \times 1,5 \mathrm{~mm}^{2}\);
Dimensions (diameter xH) \(53 \times 28 \mathrm{~mm}\)
Optimised for commissioning with ETS3 from version D patch A.
Suitable valve drive order no. 75900076

■ 1 electronic output (triac) for connection of 230V thermoelectric actuator drives
\(\square\) for individual single room control
- for continuous (PI) or switched (2-point) control

■ with emergency programme e.g. for sensor or bus failure
- with 3 independent binary inputs for potential-free contacts
- binary input functions: Switching, dimming, shutter control and value transmitter
- with programming button and red programming LED
- built into flush-mounted or splash-protected junction box
- pre-assembled, with cables


\section*{Heating actuator 6gang Triac 230 V AC RMD} light grey 75316003

1
Operating voltage over bus \(21-32 \mathrm{~V}=\);
Auxiliary voltage 230/240 V~;
Frequency \(50 / 60 \mathrm{~Hz}\);
Switching current \(250 \mathrm{~V} \sim \max .50 \mathrm{~mA}\);
Actuator drives per channel max. 4;
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
RMD 4 modules
Dimensions (W x H x D) \(72 \times 90 \times 65 \mathrm{~mm}\); Assembling height as from DIN rail 58 mm

\section*{Suitable valve drive order no. 75900076}

■ for individual single room control
\(\square\) for continuous (PI) or switched (2-point) control
\(\square\) for thermoelectric valve drives 230 V , closed in de-energized state
■ with emergency programme e.g. for sensor or bus failure
- with programming button and red programming LED
■ bus connection via connecting terminal
- with screw terminals


\section*{Heating actuator 12gang Triac 24 V AC surface mounted}
grey 75330001
1
Operating voltage over bus 21-32 V=;
Auxiliary voltage \(230 \mathrm{~V} \sim\);
Frequency \(50 / 60 \mathrm{~Hz}\);
Output voltage \(24 \mathrm{~V} \sim\);
Total output current max. 1 A ;
Actuator drives 24 V max. 13;
Actuator drives 24 V per channel max. 2;
Operating temperature \(0-50^{\circ} \mathrm{C}\);
Dimensions (W x H x D) \(302 \times 75 \times 70 \mathrm{~mm}\)
for order no. 75900077
- for individual single room control
- for continuous (PI) or switched (2-point) control

■ for valve drives 24 V , closed in de-energized state
\(\square\) with emergency programme e.g. for sensor or bus failure
\(\square\) with green operation LED and red programming LED
■ with red fuse LED
with 12 red heat request LEDs
\(\square\) short-circuit and overload proof (fine-wire fuse)
- with integral transformer
- bus connection via connecting terminal
- with plug-in terminals

Order no.

Fan coil actuator 2gang 10 A NO, hand,
\begin{tabular}{l} 
status RMD \\
light grey
\end{tabular}
75312012

Operating voltage over bus 21-32 V=; Auxiliary voltage 230 V ;
230 V incandescent lamps 2300 W ; 230 V halogen lamps 2300 W; Conventional transformers 1200 W;
Electronic transformers 1500 W;
Fluorescent lamps uncompensated 1000 W; Fluorescent lamps parallel compensated \(1160 \mathrm{~W} / 140 \mu \mathrm{~F}\);
Operating temperature \(-5-45^{\circ} \mathrm{C}\);
RMD 4 modules;
Dimensions (W \(\times \mathrm{H} \times \mathrm{D}) 72 \times 90 \times 70 \mathrm{~mm}\);
Assembling height as from DIN rail 63 mm
Comply the fan convector manufacturers` instructions!

For commissioning with the ETS3 for version D patch A.

■ for the electric activation of fan convectors
■ for converting RTR control variables into valve positions, fan stages
- activation of 1 or 2 fan channels with 6 or 3 fan stages
\(\square\) for operating modes heating/cooling or heating and cooling
- manual activation of blow fans using push-buttons or the operating panel
- use of free channels to control switching loads

■ 4 manual operation buttons for controlling fan stages and bus function on/off
■ manual operation also possible without bus e.g. on building site
- with programming button and red programming LED
■ with 8 red status LEDs and 3 red LEDs as manual actuation indication
- bus connection via connecting terminal

■ with screw terminals
.


\section*{Radio receiver surface-mounted}
white \(\quad 75630004\)
Operating voltage over bus 21-32 V=;
Function channels 50;
Teachable radio transmitters (buttons) 100;
Radio signal reception frequency \(433,42 \mathrm{MHz}\);
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
Dimensions (W x H x D) \(110 \times 94 \times 38 \mathrm{~mm}\)
For teach-in of radio transmitters a 9 V block battery is required, e.g. order no. 9209.

The surface-mounted radio receiver converts signals of taught-in radio bus transmitters into instabus KNX/ EIB telegrams.
for order no. 0124 10, 017401 09, 2721 .., 2722 ..,
2723 .., 2724 .., 2764, 2766, 2769, 9420 .., 94300100

■ processing the radio signals of hand-held, wallmounted radio transmitters and radio controllers
\(\square\) for switch, push-button, dimmer and shutter functions
■ dimming / position value transmitter 1 byte
■ extension unit for light scene push-button
■ with 2-digit, 7-segment function channel display
■ with programming button and function channel selection button
\(\square\) with green operation LED and red programming LED
- with fitting material

■ bus connection via connecting terminal
■ with screw terminals


\section*{DALI gateway RMD}
light grey
75710003
1
\(50 / 60 \mathrm{~Hz}\)
Operating voltage over bus 21-32 V=;
Operating voltage 110/240 V~;
DALI voltage \(16 \mathrm{~V}=(9.5 . .22 .5 \mathrm{~V}=)\);
Operating temperature \(5-45^{\circ} \mathrm{C}\);
RMD 4 modules;
Dimensions (W x H x D) \(72 \times 90 \times 70 \mathrm{~mm}\);
Assembling height as from DIN rail 63 mm
Groups 17 to 32 can be implemented with only one DALI device each.
- for switching and controlling electr. ballasts and Tronic transformer with DALI interface
■ as DALI master and power supply for DALI devices
■ max. 64 DALI devices in max. 16 EIB groups and max. 16 light scenes
- programmable with ETS3 Patch d
- DALI device replacement in event of defect or utilisation of ETS is possible
- 4 manual operation buttons for on/off (brighter/ darker) and bus function on/off per channel / device
- manual operation also possible without bus e.g. on building site
■ 2 digit red LED display for group indication in manual operation
■ with programming button and red programming LED
■ bus connection via connecting terminal
■ with screw terminals

Order no.

\section*{IP control}
light grey 75710004
1
Operating voltage 10-30 V=;
Power consumption >=5 VA
receiptable addresses 32766;
Working memory 64 MB RAM;
Operating temperature \(0-+35{ }^{\circ} \mathrm{C}\);
RMD 8 modules;
Dimensions (W x H x D) \(144 \times 90 \times 64 \mathrm{~mm}\);
Assembling height as from DIN rail 58 mm
Knowledge of network technology is required in order to put into operation.

Devices iPhone/iPad, mobile phones, PDA can be connected via Internet.
- KNX/EIB server to supply up to 15 visualization clients with KNX/EIB data
\(\square\) administration of 50 users for the control of access authorisation
■ central operating and visualisation unit for KNX/EIB via web browser
■ support of common web browsers (IE, Netscape, Firefox etc.)
■ also usable with Apple Macintosh
■ freely configurable graphic operating surface for representation on the PC monitor
- integrated element library with standard operating elements
■ up to 20 operating configurations for different applications
■ commissioning and programming without ETS via web browser
■ remote commissioning / maintenance of KNX/EIB systems possible via the Internet
- configuration tool for installation of IP settings and parameterisations
- for control and visualisation of e.g.shutters, lights, heating, ventilation, alarm syst., phys.sens.
- central functions/scenarios for heating, shutters, illumination, etc. can be configured by end user
- with integrated controller for logic functions (concatenations, threshold value processing)
- creation of light scenes with up to 28 telegrams each
\(\square\) with week and year timer function
\(\square\) time update via Internet NTP server and transmission to the KNX/EIB
\(\square\) with event indicator for e.g. status/alarm messages via e-mail
■ integration of network cameras possible
- Integration of external control units with JAVA support (e.g. tablet PC) via WLAN
- control of multimedia applications

■ database connection to the memory of utilisation/ consumption data of the KNX/EIB
■ for LAN connection of individual KNX/EIB installations
- with updatable Flash-Controller for subsequent function expansions
- with status LED for operational stand-by, data processing, KNX/EIB communication, LAN status
- with RJ45 Port for LAN connection

■ operation with non-choked output of KNX/EIB voltage supply possible (pay attention to current consum
- bus connection via connecting terminal

■ with screw terminals

Order no.
Packing
unit


\section*{Tele-control surface-mounted} light grey \(\quad 75730011\)

1
Operating voltage over bus 21-32 V=; Auxiliary voltage 230 V ;
Frequency \(50 / 60 \mathrm{~Hz}\);
Switching voltage 12 V ; Switching current 100 mA (short-circuit-proof);
Message/status texts per 6;
Call numbers for alarm 4;
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
Dimensions (W x H x D) \(205 \times 251 \times 49 \mathrm{~mm}\)
For alarm central unit KNX/EIB order no. 75730010
- control/polling with conventional TSU phone

■ to alarm neighbours and acquaintances as well as using mobile
alarm via voice message, SMS, fax or e-mail possible
- with password protection using four-digit number on opening
- programme memory network failure proved

■ Monitoring of the analogue telephone line
- with voice message that can be personally adapted, and operator guidance with language support
- with 4-line LC display for status display
- with 10 Instabus KNX/EIB signal inputs
\(\square\) with 6 potential-free signal inputs
■ with 10 selectable Instabus KNX/EIB outputs
- with 6 selectable relay outputs (normally open)
- channels can be adjusted independently

■ Commissioning via integrated rotary switch or via PC
- analogue, extension unit compatible e.g. to TAE N socket and UAE socket
- with TAE N connection cable
\(\square\) with PC software and connecting cable
■ with plug-in power supply unit
- bus connection via connecting terminal
- with screw terminals

\section*{Accessories: Handset}
black
75900009

■ for recording custom announcement texts
■ standard commercially available telephone receiver with RJ11 plug

Order no.
Order no.
Packing
unit
ALARM SYSTEM KNX/EIB


Alarm central unit KNX/EIB
polar white/black \(\quad 75730010\)
1
Operating voltage \(230 \mathrm{~V} \sim\);
Frequency \(50 / 60 \mathrm{~Hz}\);
Output voltage \(12 \mathrm{~V}=\);
Switching current max. 1,8 A;
Switching current change-over contact \(12 \mathrm{~V}=\) max. 5 A;
Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\);
Max. cable length, alarm units 100 m ;
Cable length for wired detector, max. 200 m ;
Max. cable length sabotage 600 m ;
Dimensions (W x H x D) \(210 \times 270 \times 72 \mathrm{~mm}\)
To agree upon a training date, please contact your regional Berker field sales representative.

To prevent malfunctions, we recommend that only Berker KNX/EIB products are used in connection with the alarm central unit KNX/EIB.

■ for maximum 160 sensors (communication objects) and 4 alarm zones
■ alarm zones can be activated individually or linked
\(\square\) history memory with individual sensor identification
- detector descriptions can be defined as required
- cyclic sensor monitoring
- alarm duration and delay times activated/alarm adjustable
■ sensor inputs via binary inputs or universal interfaces
■ activat. phone dial unit assault, burglary, fire, malfunc.,armed/not armed on potent.-free cont./ KNX
- outputs for outside/inside siren and flash light or connection to KNX/EIB via actuator
\(\square\) with sabotage protection by contact in cover
- additional signal input as sabotage protection for mounting place
■ decentral indication and operation, e.g. info display
■ with emergency power storage battery 12 V for maximum 12 hours
■ with integral clock (DCF-compatible using system clock)
■ with green operation LED and red programming LED
- with control LED per output

■ cascadable
■ with fitting material
■ requirement: ETS2 V1.2a or ETS3
■ bus connection via connecting terminal
■ with screw terminals

\section*{Accessories: Emergency power storage} battery 12 V

920001 1
\(12 \mathrm{~V}=, 1,2 \mathrm{Ah}\)
for order no. 75730010

■ for alarm central unit KNX/EIB
■ for replacement need

\section*{Berker Master Control}

PANELS
Mini control panels
\begin{tabular}{lll} 
polar white & \(\mathbf{7 5 7 4 0 0 1 2}\) & 1 \\
anthracite & \(\mathbf{7 5 7 4 0 0 1 3}\) & 1
\end{tabular}

Operating voltage over bus \(21-32 \mathrm{~V}=\);
Auxiliary voltage \(230 \mathrm{~V} \sim\);
Frequency \(50 / 60 \mathrm{~Hz}\);
Limit values max. 32;
Logic operations, cascadable 80;
TFT screen 5,7 ,;
Graphical display \(320 \times 240 / 240 \times 320\) Pixel;
Display colours 4096;
Graphics memory approx. 4 MB ;
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
Dimensions ( \(\mathrm{W} \times \mathrm{H} \times \mathrm{D}\) ) \(221 \times 141 \times 46 \mathrm{~mm}\)
For flush-mounted housing order no. 75900021 For covering frame order no. 7594 ..

■ freely programmable indication and operating panel with TFT touch display
■ 50 dialog pages each with up to 16 parameterisable display elements (max. 400)
■ display elements suitable for invoking predefined or freely-configurable functions
■ freely selectable national language (code page) per indication page
- linking of dialogue pages possible

■ request for dialogue pages via KNX/EIB object
- display lighting, duration and type of activation and brightness adjustable in 2 stages
- background bitmaps insertable

■ 50 error messages, can be parameterised
■ indication of the last 20 error messages via message window, audible warning
- retrieval of e-mails
- transmission of predefined e-mails

■ indication of up to 8 RSS news feeds
■ text display (ASCII-format)
■ for e.g. switching, dimming, shutters, light scenes, heating, operating modes, date, time
- for e.g. access control, positive oper., value transm., value display with limit values or not
■ retrieval, adjustment and storage of 24 light scenes with up to 32 outputs
- presence simulation with recording and reproduction type daily sequences
\(\square\) integrated alarm system for monitoring of windows, doors and interiors
■ 4 password levels for differentiated access authorization parametrizable
- with synchronisable integral real-time clock with date
- time switch (weekly) with 16 channels each with 8 switching times
- astro program for functions during sunrise/sunset
- intelligent functions e.g. time links, logic functions, multiplexes parameterisable
■ data logger for recording, evaluation and representation of measuring points as diagram
- remote operation via PC possible

■ with RJ45 Port for LAN connection
■ programmable via USB interface, network or KNX/ EIB
■ integral piezo buzzer
- bus connection via connecting terminal

■ with screw terminals

Order no.
Packing
unit
Mini tableau MT701 Plus
light grey 75740009
1
Operating voltage over bus 21-32 V=;
Auxiliary voltage \(230 \mathrm{~V} \sim\);
Frequency \(50 / 60 \mathrm{~Hz}\);
Limit values max. 32;
Logic operations, cascadable 80;
Graphical display \(240 \times 128\) Pixel;
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
Dimensions (W x H x D) \(213 \times 125 \times 82 \mathrm{~mm}\); Installation depth 60 mm

For flush-mounted housing order no. 75900021 For covering frame order no. 759400 ..

\section*{IP54}
\(\square\) freely programmable indication and operating panel
■ 50 dialogue pages with 8 function/display lines only
- 16 lines per page, freely configurable

■ with display illumination button, 2 cursor buttons and 4 programmable buttons
■ with display lighting, operable with KNX/EIB telegram and manually
\(\square\) background bitmaps insertable
- 50 error messages parameterisable with error log for 20 messages
- text display (ASCII-format)
\(\square\) for e.g. switching, dimming, shutters, light scenes, heating, operating modes, date, time
\(\square\) for e.g. access control, positive oper., value transm., value display with limit values or not
■ retrieval, adjustment and storage of 24 light scenes with up to 32 outputs
- with synchronisable integral real-time clock with date
- weekly time switch with 16 channels
- 40 time elements with filter, time and blocking parameters parameterisable for switching functions
- 12 multiplexers with up to 3 channels parameterisable
■ integral piezo buzzer
■ 4 password-protected levels parameterisable as required for each dialog page
- programmable using PC with free RS 232 interface (from ETS2 V1.2a) or via KNX/EIB
\(\square\) bus connection via connecting terminal
- with screw terminals
\begin{tabular}{|c|c|c|c|}
\hline \multicolumn{4}{|l|}{Accessories} \\
\hline & \multicolumn{3}{|l|}{Flush-mounted housing for mini tableaus} \\
\hline \multirow[t]{2}{*}{} & grey & 75900021 & 1 \\
\hline & \begin{tabular}{l}
Hallow wall ope Dimensions (W \\
for order no. 75 \\
- for flush moun \\
- with cleaning
\end{tabular} & \begin{tabular}{l}
\[
\begin{aligned}
& \text { x H x T) } 212 \\
& 216 \times 134 \times \\
& , 75740012,
\end{aligned}
\] \\
hollow-wall
\end{tabular} & mm; \\
\hline & Frame for Mas & ntrol & \\
\hline & glass, polar white & 75940101 & 1 \\
\hline & glass, black & 75940105 & 1 \\
\hline & glass, aluminium & 75940104 & 1 \\
\hline & stainless steel & 75940103 & 1 \\
\hline
\end{tabular}

Glass, high-gloss, backside polar white printed. Stainless steel, brushed.
For Berker Master Control order no. 757400 12, 75740013

Order no.


Frame for MT701 plus
\begin{tabular}{lll} 
polar white & \(\mathbf{7 5 9 4 0 0 0 9}\) & 1 \\
deep black & \(\mathbf{7 5 9 4 0 0 0 5}\) & 1 \\
\begin{tabular}{l} 
stainless steel, \\
lacquered
\end{tabular} & \(\mathbf{7 5 9 4 0 0 0 3}\) & 1 \\
light bronze, lacquered & \(\mathbf{7 5 9 4 0 0 0 4}\) & 1
\end{tabular}

Dimensions (W x H x D) \(217 \times 146 \times 9,6 \mathrm{~mm}\)
for order no. 75740009

\section*{SOFTWARE}

\section*{Product database}


\section*{Product database with update service}
German version \(\quad 759000 \mathbf{0 0} 1\)

English version \(\quad \mathbf{7 5 9 0} 0060\)
For further languages please contact our local representitive!

The product database delivers all current Berker instabus KNX/EIB components for installation in the ETS database.

■ CD-ROM from ETS 2.0
■ available in the Internet

\section*{Tender specification texts}


\section*{Tender specification texts with update service}

German version
75900012
1

■ in GAEB or text format
- included on the product database CD-ROM and available in the Internet

Order no.
Order no.
Packing



Push-button 2gang
white, glossy 75162112
polar white, glossy 75162119
Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\)
Application as 751620 .
For bus coupling unit flush-mounted order
no. 75040001
\(\square\) with anti-dismantling protection
■ for switch, push-button, dimmer and shutter functions
- dimming / position value transmitter 1 byte

■ extension unit for light scene push-button


\section*{Push-button 4gang}
white, glossy \(75164112 \quad 1\)
polar white, glossy 751641191

Operating temperature \(-5-+45^{\circ} \mathrm{C}\)

Application as 751640 ..
For bus coupling unit flush-mounted order no. 75040001
\(\square\) with anti-dismantling protection
\(■\) for switch, dimmer and shutter functions
■ dimming / position value transmitter 1 byte
■ extension unit for light scene push-button
Push-buttons with labelling field

\begin{tabular}{lll} 
Push-button 1gang with labelling field \\
white, glossy & \(\mathbf{7 5 1 6} \mathbf{1 0 1 2}\) & 1 \\
polar white, glossy & \(\mathbf{7 5 1 6 1 0 1 9}\) & 1
\end{tabular}

Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\)

For bus coupling unit flush-mounted order no. 75040001
\(■\) with anti-dismantling protection
■ with green operation LED and red status LED
\(\square\) for switch, push-button, dimmer and shutter functions
- dimming / position value transmitter 1 byte

■ extension unit for light scene push-button


Push-button 2gang with labelling field
white, glossy \(\quad 75162012\)
polar white, glossy 751620191

Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\)

For bus coupling unit flush-mounted order no. 75040001

■ with anti-dismantling protection
\(\square\) with green operation LED and 2 red status LEDs
- for switch, push-button, dimmer and shutter functions
■ dimming / position value transmitter 1 byte
■ extension unit for light scene push-button


Push-button 4gang with labelling field
white, glossy 751640121
polar white, glossy 751640191

Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\)

For bus coupling unit flush-mounted order no. 75040001

■ with anti-dismantling protection
- with green operation LED and 4 red status LEDs
\(\square\) for switch, dimmer and shutter functions
- dimming / position value transmitter 1 byte

■ extension unit for light scene push-button

\section*{Push-buttons comfort with labelling field}


Push-button 1gang comfort with labelling field
white, glossy 751616121
polar white, glossy 751616191
Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\)

For bus coupling unit flush-mounted order no. 75040001

■ with anti-dismantling protection
\(\square\) with green operation LED and 2 red status LEDs
■ for switch, push-button, dimmer and shutter functions
\(\square\) value transmitter for dimming, position, brightness and temperature values 1 and 2 byte
■ extension unit for light scene push-button
■ cyclic transmission can also be started via switching object
■ alarm telegram after disconnection from bus coupling unit 1 bit or 1 byte
■ single and two push-button operation parameterisable
■ one push-button operation for switching, pushing, shutters and dimming
- activation of second user level via object

Order no.


Push-button 2gang comfort with labelling field
white, glossy \(75162612 \quad 1\)
polar white, glossy \(75162619 \quad 1\)
Operating temperature \(-5-+45^{\circ} \mathrm{C}\)
For bus coupling unit flush-mounted order no. 75040001
- with anti-dismantling protection
- with green operation LED and 4 red status LEDs
- for switch, push-button, dimmer and shutter functions
- value transmitter for dimming, position, brightness and temperature values 1 and 2 byte
- extension unit for light scene push-button
- cyclic transmission can also be started via switching object
- alarm telegram after disconnection from bus coupling unit 1 bit or 1 byte
■ single and two push-button operation parameterisable
■ one push-button operation for switching, pushing, shutters and dimming
- activation of second user level via object


\section*{Push-button 4gang comfort with labelling field}
white, glossy \(75164612 \quad 1\)
polar white, glossy \(75164619 \quad 1\)

Operating temperature \(-5-+45^{\circ} \mathrm{C}\)
For bus coupling unit flush-mounted order no. 75040001
- with anti-dismantling protection
- with green operation LED and 8 red status LEDs
- for switch, push-button, dimmer and shutter functions
- value transmitter for dimming, position, brightness and temperature values 1 and 2 byte
- extension unit for light scene push-button
- cyclic transmission can also be started via switching object
- lockable via 3-button actuation
- alarm telegram after disconnection from bus coupling unit 1 bit or 1 byte
- single and two push-button operation parameterisable
- one push-button operation for switching, pushing, shutters and dimming
- second operating level via object or 3-button handle

Order no.

\begin{tabular}{|c|c|c|c|}
\hline \multicolumn{4}{|l|}{Accessories} \\
\hline & Labelling field with & over plate & \\
\hline & clear transparent, for white push-buttons & 75960001 & 1 \\
\hline & clear transparent, for polar white push-buttons & 75960002 & 1 \\
\hline
\end{tabular}

Not suitable for push-button comfort and light scene push-buttons comfort.

■ for replacement need

\section*{THERMOSTATS}

Object room thermostat with button interface and integral bus coupling unit
\begin{tabular}{lll} 
white, glossy & \(\mathbf{7 5 4 4 1 2 1 2}\) & 1 \\
polar white, glossy & \(\mathbf{7 5 4 4} \mathbf{1 2 1 9}\) & 1
\end{tabular}

Output current per channel max. \(0,8 \mathrm{~mA}\);
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
Cable length, inputs/outputs, max. 5 m ;
Sensor cable length max. 50 m
Binary input 4 parameter defineable for remote sensor order no. 0161
- for single room control
- with anti-dismantling protection
- operating modes: comfort, standby, night lowering, frost/heat protected, dewpoint
- for continuous (PI) or switched (2-point) control
- for heating and/or cooling mode
- heating or cooling possible in 2 stages
- valve protection can be defined
- conduct can be defined for bus voltage return
- with programming button and red programming LED
- with 4 independent binary inputs for potential-free contacts e.g. window magnetic contact
- 4 binary inputs or 2-3 binary inputs and 1-2 outputs parameterisable
- bus connection via connecting terminal
- without spreader claws
- binary inputs / outputs with screw terminals

Order no.
Packing
unit

\section*{Room thermostat with button interface and integral bus coupling unit \\ white, glossy 75441112 \\ polar white glossy 75441119}

Set value control by setting knob +/- 0-10 K;
Output current per channel max. \(0,8 \mathrm{~mA}\);
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
Cable length, inputs/outputs, max. 5 m ;
Sensor cable length max. 50 m
Binary input 4 parameter defineable for remote sensor order no. 0161
- for individual single room control

■ with anti-dismantling protection
- operating modes:comfort, standby, night lowering, frost/heat protection, dewpoint displayed with LED
\(\square\) status-LED red is for heating, blue is for cooling and yellow is for activation
- with presence button for switching between comfort and standby mode
- presence button and setting knob can be programmed to have no functions
- for continuous (PI) or switched (2-point) control
- for heating and/or cooling mode
- heating or cooling possible in 2 stages
- valve protection can be defined
- conduct can be defined for bus voltage return
- with programming button and red programming LED
- with 4 independent binary inputs for potential-free contacts e.g. window magnetic contact
\(\square 4\) binary inputs or 2-3 binary inputs and 1-2 outputs parameterisable
■ bus connection via connecting terminal
- without spreader claws
- binary inputs / outputs with screw terminals

Sensor insert
Central plate for sensor insert
white, glossy \(75940402 \quad 1\)
polar white, glossy 759404091
Attention!
Use only with intermediate ring for central plate from
the corresponding range.
Labelling field not usable.
Sensor insert order no. 75941001
- with slots for air circulation
- for e.g. temperature sensor PT100

Order no.
Packing
unit

\section*{CONTROLLERS}

Controller sensor 180
\begin{tabular}{lll} 
white, glossy & \(7526 \mathbf{1 1 1 2}\) & 1 \\
polar white, glossy & \(\mathbf{7 5 2 6 1 1 1 9}\) & 1
\end{tabular}

Nominal mounting height \(1,1 \mathrm{~m}\);
Range frontal approx. 10 m ;
Range lateral each approx. 6 m;
Detection field semi-oval shaped approx. \(10 \times 12 \mathrm{~m}\);
Detection angle \(180^{\circ}\);
Detection levels 2;
Switching segments 72;
Response sensitivity programmable
approx. 20-100 \% ;
Delay time 10 sec.;
Additional delay time programmable
130 msec.- 152 hrs.;
Response brightness programmable 1-1000/ unlimited Lux;
Lockout time 8 msec.- 140 min.;
Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\);
Dimensions assembling height \(23,5 \mathrm{~mm}\)
Direct sunlight penetration the upward-pointing detection plane results in failure of the movement controller. Only suitable for interiors!

When movement of a person is detected a parameter defined data telegram is sent.
For bus coupling unit flush-mounted order
no. 75040001
- with cover to limit detection angle to \(90^{\circ}\)
\(■\) with potentiometer for fine adjustment of the response sensitivity
■ parameter defineable lock function
- also suitable as extension unit
- cyclic transmission possible

Order no.
Order no.
unit


\section*{Controller sensor 180 comfort with slide switch for off/automatic/on \\ white, glossy \(75261512 \quad 1\) \\ polar white, glossy \(75261519 \quad 1\)}

Nominal mounting height 1,1 m;
Range frontal approx. 10 m ;
Range lateral each approx. 6 m;
Detection field semi-oval shaped approx. \(10 \times 12 \mathrm{~m}\);
Detection angle \(180^{\circ}\);
Detection levels 2;
Switching segments 72;
Response sensitivity programmable
approx. 20-100 \% ;
Delay time 10 sec .;
Additional delay time programmable
\(130 \mathrm{msec} .-306\) hrs.;
Potentiometer for additional delay time +/- \(50 \%\); Response brightness programmable 3-100/ unlimited Lux;
Response brightness adjustable by potentiometer +/- 50 \%;
Lockout time 8 msec.- 140 min .;
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
Dimensions assembling height \(23,5 \mathrm{~mm}\)
Attention:
Direct sunshine can lead to false alarms when using alarm application. Avoid using detection field equiqment on windows.

Direct sunlight penetration the upward-pointing detection plane results in failure of the movement controller. Only suitable for interiors! For bus coupling unit flush-mounted order no. 75040001
- with cover to limit detection angle to \(90^{\circ}\)
- with potentiometers for fine adjustment of the response brightness, sensitivity and delay time
- with red diagnostic LED for brightness-independent walk test function and disassembly message
- parameter defineable lock function
- with lighting and message mode
- operating mode switched with object
- functions for lighting operating mode: Switching, Value transmitter and Light scene call
- also suitable as extension unit
- cyclic transmission possible
- alarm telegram after disconnection from bus coupling unit 1 bit

Controller sensor 180

Nominal mounting height 2,2 m;
Range frontal approx. 12 m ;
Range lateral each approx. 6 m
At assembly height \(1,1 \mathrm{~m}\);
Range lateral each approx. 3 m;
Detection angle \(180^{\circ}\);
n levels 2
witching segments 72 ;
approx. 20-100 \% ;
Delay time 10 sec .;
Adional delay time programmable
Response brightness programmable 1-1000 /
unlimited Lux;
Lockout me 8 mee. -140 mis.
Dimensions assembling height \(23,5 \mathrm{~mm}\)
Application as for order no. 752611 ..
When movement of a person is detected a parameter dern da dateg
For bus coupling unit flush-mounted order
- with cover to limit detection angle to \(90^{\circ}\)
with potentiometer for fine adjustment of the
parameter defineable lock function
- also suitable as extension unit
- cyclic transmission possible

Order no.

\section*{Controller sensor 180 comfort with slide switch for off/automatic/on \\ white, glossy 752616121 \\ polar white, glossy 752616191}

Nominal mounting height 2,2 m;
Range frontal approx. 12 m ;
Range lateral each approx. 6 m;
At assembly height 1,1 m;
Range frontal approx. 6 m;
Range lateral each approx. 3 m
Detection field semi-oval shaped approx. \(12 \times 12 \mathrm{~m}\);
Detection angle \(180^{\circ}\);
Detection levels 2;
Switching segments 72;
Response sensitivity programmable
approx. 20-100 \% ;
Delay time 10 sec.;
Additional delay time programmable
130 msec.- 306 hrs.;
Potentiometer for additional delay time +/- 50 \%;
Response brightness programmable 3-100/ unlimited Lux
Response brightness adjustable by potentiometer +/- 50 \%;
Lockout time 8 msec.- 140 min .;
Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\);
Dimensions assembling height \(23,5 \mathrm{~mm}\)
Application as for order no. 752615 ..

Attention:
Direct sunlight can lead to false alarms when using alarm application. Alignment of detection field towards window must be avoided.

When movement of a person is detected a parameter defined data telegram is sent.
For bus coupling unit flush-mounted order no. 75040001
- with cover to limit detection angle to \(90^{\circ}\)
\(\square\) with potentiometers for fine adjustment of the response brightness, sensitivity and delay time
- with red diagnostic LED for brightness-independent walk test function and disassembly message
- parameter defineable lock function

■ with lighting and message mode
- operating mode switched with object

■ functions for lighting operating mode: Switching, Value transmitter and Light scene call
■ also suitable as extension unit
- cyclic transmission possible

■ alarm telegram after disconnection from bus coupling unit 1 bit

Order no.
Packing
unit
INFO DISPLAY


Info display
\begin{tabular}{lll} 
white, glossy & \(\mathbf{7 5 8 6 0 0 1 2}\) & 1 \\
polar white, glossy & \(\mathbf{7 5 8 0 0 1 0} \mathbf{0 0}\) & 1
\end{tabular}

Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\)

Commissioning possible only with ETS3 and ETS2 V1.2 SR A.

For bus coupling unit flush-mounted order
no. 75040001

■ with anti-dismantling protection
■ LC display with illumination
- programmable to 1 , 2 or 4 lines
- 16 characters per line on max. 12 pages
\(\square\) to display and initiate actions
■ for max. 48 signalling groups
- with piezo signal generator
- visual/acoustic alarm message, with reset

■ German/English
BLANK PLATES

\section*{Blank plate}
\begin{tabular}{lll} 
white, glossy & \(\mathbf{7 5 9 4 0 2 1 2}\) & 1 \\
polar white, glossy & \(\mathbf{7 5 9 4 0 2 1 9}\) & 1
\end{tabular}

For bus coupling unit order no. 750400 01, 75040003

■ for bus coupling units flush-mounted

Order no.
Packing
Order no.

\section*{PUSH-BUTTONS}

Push-buttons with labelling field
\begin{tabular}{|lll|}
\hline \multicolumn{8}{|l|}{\begin{tabular}{l} 
Push-button 1gang with labelling field \\
for white and polar white \\
for anthracite and
\end{tabular}} & \(\mathbf{7 5 1 6} \mathbf{1 3 8 0}\) & 1 \\
for 13 85 & 1
\end{tabular}
aluminium
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
Labelling field length ( \(\mathrm{W} \times \mathrm{H}\) ) \(52,3 \times 52,3 \mathrm{~mm}\)
For bus coupling unit flush-mounted order no. 75040001
- with anti-dismantling protection
\(\square\) with white operation LED and 2 red status LEDs
- for switch, push-button, dimmer and shutter functions
- dimming / position value transmitter 1 byte
- extension unit for light scene push-button


\section*{Push-button 2gang with labelling field \\ for white and polar white 75162380 \\ for anthracite and 75162385}
aluminium
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
Labelling field length ( \(\mathrm{W} \times \mathrm{H}\) ) \(52,3 \times 24,9 \mathrm{~mm}\)
For bus coupling unit flush-mounted order no. 75040001
- with anti-dismantling protection
- with white operation LED and 4 red status LEDs
- for switch, push-button, dimmer and shutter functions
- dimming / position value transmitter 1 byte
- extension unit for light scene push-button


\section*{Push-button 3gang with labelling field}
for white and polar white \(75163380 \quad 1\)
for anthracite and 75163385 aluminium
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
Labelling field length ( \(\mathrm{W} \times \mathrm{H}\) ) \(52,3 \times 15,6 \mathrm{~mm}\)
For bus coupling unit flush-mounted order no. 75040001
- with anti-dismantling protection
- with white operation LED and 6 red status LEDs
- for switch, push-button, dimmer and shutter functions
- dimming / position value transmitter 1 byte
- extension unit for light scene push-button
\(\square\)
\begin{tabular}{lll}
\begin{tabular}{lll} 
Push-button 4gang with labelling field & \\
for white and polar white & \(\mathbf{7 5 1 6 4 3 8 0}\) & 1 \\
for anthracite and & \(\mathbf{7 5 1 6 4 3 8 5}\) & 1 \\
aluminium
\end{tabular} & &
\end{tabular}

Operating temperature \(-5-+45^{\circ} \mathrm{C}\); Labelling field length \((\mathrm{W} \times \mathrm{H}) 52,3 \times 24,9 \mathrm{~mm}\)

For bus coupling unit flush-mounted order no. 75040001
- only for frame with large cut-out
- for installation in 1 gang wall boxes
- with anti-dismantling protection
- with white operation LED and 8 red status LEDs

■ for switch, dimmer and shutter functions
- dimming / position value transmitter 1 byte
- extension unit for light scene push-button


Push-button 1gang with labelling field
polar white, matt \#7516 1089
anthracite, matt \#7516 1085
aluminium, matt \#7516 1083

Operating temperature \(-5-+45^{\circ} \mathrm{C}\)
For bus coupling unit flush-mounted order
no. 75040001
- with anti-dismantling protection
- with green operation LED and red status LED
- for switch, push-button, dimmer and shutter functions
- dimming / position value transmitter 1 byte
- extension unit for light scene push-button


Push-button 2gang with labelling field
\begin{tabular}{lll} 
polar white, matt & \(\#\) 7516 2089 & 1 \\
anthracite, matt & \(\#\) 7516 2085 & 1 \\
aluminium, matt & \(\#\) 7516 2083 & 1
\end{tabular}

Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\)
For bus coupling unit flush-mounted order
no. 75040001
- with anti-dismantling protection
- with green operation LED and 2 red status LEDs
\(\square\) for switch, push-button, dimmer and shutter functions
- dimming / position value transmitter 1 byte
- extension unit for light scene push-button


Push-button 4gang with labelling field
polar white, matt \#75164089 1
anthracite, matt \#75164085 1
aluminium, matt \#75164083 1
Operating temperature \(-5-+45^{\circ} \mathrm{C}\)
For bus coupling unit flush-mounted order
no. 75040001
- with anti-dismantling protection
- with green operation LED and 4 red status LEDs
- for switch, dimmer and shutter functions
- dimming / position value transmitter 1 byte
- extension unit for light scene push-button

Order no.

\section*{Push-buttons}

\section*{Push-button 1gang}
\begin{tabular}{lll} 
polar white, matt & \(\#\) 7516 1189 & 1 \\
anthracite, matt & \(\#\) 7516 1185 & 1 \\
aluminium, matt & \(\# 75161183\) & 1
\end{tabular} aluminium, matt \#75161183 1

Operating temperature \(-5-+45^{\circ} \mathrm{C}\)
Application as 7516 10..
For bus coupling unit flush-mounted order no. 75040001
- with anti-dismantling protection
- for switch, push-button, dimmer and shutter functions
- dimming / position value transmitter 1 byte

■ extension unit for light scene push-button

\section*{Push-button 2gang}
polar white, matt \#7516 21891
anthracite, matt \#75162185 1
aluminium, matt \#75162183 1
Operating temperature \(-5-+45^{\circ} \mathrm{C}\)
Application as 751620 ..
For bus coupling unit flush-mounted order no. 75040001
- with anti-dismantling protection
- for switch, push-button, dimmer and shutter functions
- dimming / position value transmitter 1 byte
\(■\) extension unit for light scene push-button

\section*{Push-button 4gang}
\begin{tabular}{lll} 
polar white, matt & \#7516 4189 & 1 \\
anthracite, matt & \(\#\) 75164185 & 1 \\
aluminium, matt & \(\#\) 75164183 & 1
\end{tabular}
aluminium, matt \#75164183
1

Operating temperature \(-5-+45^{\circ} \mathrm{C}\)
Application as 751640 ..
For bus coupling unit flush-mounted order no. 75040001
\(\square\) with anti-dismantling protection
- for switch, dimmer and shutter functions
- dimming / position value transmitter 1 byte

■ extension unit for light scene push-button

Order no.
Packing
unit

\section*{Push-buttons comfort with labelling field}

Push-button 1gang comfort with labelling field
for white and polar white 751617801 for anthracite and 75161785 aluminium
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
Labelling field length (W x H) 52,3 x 52,3 mm

For bus coupling unit flush-mounted order no. 75040001

■ with anti-dismantling protection
- with white operation LED and 2 red status LEDs
- for switch, push-button, dimmer and shutter functions
■ value transmitter for dimming, position, brightness and temperature values 1 and 2 byte
■ extension unit for light scene push-button
- cyclic transmission can also be started via switching object
- alarm telegram after disconnection from bus coupling unit 1 bit or 1 byte
\(\square\) single and two push-button operation parameterisable
■ one push-button operation for switching, pushing, shutters and dimming
■ activation of second user level via object


Push-button 2gang comfort with labelling field
for white and polar white 751627801
for anthracite and 75162785
aluminium
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
Labelling field length \((W \times H) 52,3 \times 24,9 \mathrm{~mm}\)
For bus coupling unit flush-mounted order
no. 75040001

■ with anti-dismantling protection
- with white operation LED and 4 red status LEDs
- for switch, push-button, dimmer and shutter functions
- value transmitter for dimming, position, brightness and temperature values 1 and 2 byte
■ extension unit for light scene push-button
■ cyclic transmission can also be started via switching object
- alarm telegram after disconnection from bus coupling unit 1 bit or 1 byte
\(■\) single and two push-button operation parameterisable
■ one push-button operation for switching, pushing, shutters and dimming
■ activation of second user level via object

Order no.
Order no.

Push-button 3gang comfort with labelling field
for white and polar white 751637801
for anthracite and 75163785 aluminium
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
Labelling field length (W x H) 52,3 x 15,6 mm
For bus coupling unit flush-mounted order no. 75040001
- with anti-dismantling protection
\(\square\) with white operation LED and 6 red status LEDs
\(\square\) for switch, push-button, dimmer and shutter functions
■ value transmitter for dimming, position, brightness and temperature values 1 and 2 byte
- extension unit for light scene push-button
- cyclic transmission can also be started via switching object
alarm telegram after disconnection from bus coupling unit 1 bit or 1 byte
- single and two push-button operation parameterisable
■ one push-button operation for switching, pushing, shutters and dimming
\(\square\) activation of second user level via object
Push-button 4gang comfort with labelling field
for white and polar white 751647801
for anthracite and 75164785

1 aluminium

Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
Labelling field length \((\mathrm{W} \times \mathrm{H}) 52,3 \times 24,9 \mathrm{~mm}\)
For bus coupling unit flush-mounted order no. 75040001
- only for frame with large cut-out

■ for installation in 1gang wall boxes
- with anti-dismantling protection
\(\square\) with white operation LED and 8 red status LEDs
- for switch, push-button, dimmer and shutter functions
- value transmitter for dimming, position, brightness and temperature values 1 and 2 byte
- extension unit for light scene push-button
- cyclic transmission can also be started via switching object
- lockable via 3-button actuation
- alarm telegram after disconnection from bus coupling unit 1 bit or 1 byte
\(\square\) single and two push-button operation parameterisable
■ one push-button operation for switching, pushing, shutters and dimming
\(\square\) second operating level via object or 3-button handle


Push-button 1gang comfort with labelling field
\begin{tabular}{llc} 
Push-button 1gang comfort with labelling field \\
polar white, matt & \(\#\) 7516 16 89 & 1 \\
anthracite, matt & \(\#\) 7516 16 85 & 1 \\
aluminium, matt & \(\#\) 7516 16 83 & 1
\end{tabular}

Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\)
For bus coupling unit flush-mounted order no. 75040001
- with anti-dismantling protection
\(\square\) with green operation LED and 2 red status LEDs
\(\square\) for switch, push-button, dimmer and shutter functions
- value transmitter for dimming, position, brightness and temperature values 1 and 2 byte
- extension unit for light scene push-button

■ cyclic transmission can also be started via switching object
- alarm telegram after disconnection from bus coupling unit 1 bit or 1 byte
■ single and two push-button operation parameterisable
■ one push-button operation for switching, pushing, shutters and dimming
- activation of second user level via object


Push-button 2gang comfort with labelling field
polar white, matt \#7516 26891
anthracite, matt \#75162685 1
aluminium, matt \#7516 26831

Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\)
For bus coupling unit flush-mounted order
no. 75040001
- with anti-dismantling protection
\(\square\) with green operation LED and 4 red status LEDs
\(\square\) for switch, push-button, dimmer and shutter functions
- value transmitter for dimming, position, brightness and temperature values 1 and 2 byte
\(\square\) extension unit for light scene push-button
- cyclic transmission can also be started via switching object
- alarm telegram after disconnection from bus coupling unit 1 bit or 1 byte
- single and two push-button operation parameterisable
■ one push-button operation for switching, pushing, shutters and dimming
■ activation of second user level via object

Order no.
Order no.
Packing
unit

\begin{tabular}{|c|c|c|}
\hline \multicolumn{3}{|l|}{Light scene push-button comfort with labelling field} \\
\hline polar white, matt & \#75168789 & 1 \\
\hline anthracite, matt & \#75168785 & 1 \\
\hline aluminium, matt & \#7516 8783 & 1 \\
\hline Light scenes m Load groups 8 & ased in cas & \\
\hline
\end{tabular}

Operating temperature \(-5-+45^{\circ} \mathrm{C}\)
The settings of the individual load groups (light scenes) can be varied by way of the second operating level.
For bus coupling unit flush-mounted order
no. 75040001
- with anti-dismantling protection
- with green operation LED and 8 red status LEDs
- retrieval, adjustment and storage of 8 light scenes
- dimming / position value transmitter 1 byte
- light scene push-buttons are cascadable
- second operating level for setting load groups via 3-button actuation
- lockable via object
\begin{tabular}{|c|c|c|c|}
\hline \multicolumn{4}{|l|}{Accessories} \\
\hline & \multicolumn{3}{|l|}{Labelling field with cover plate} \\
\hline - - - & clear transparent, for polar white push-buttons & \#7596 0007 & 1 \\
\hline & smoked glass transparent, for anthracite push-buttons & \#7596 0008 & 1 \\
\hline & clear transparent, for aluminium coloured push-buttons & \#7596 0009 & 1 \\
\hline & \multicolumn{3}{|l|}{Not suitable for push-button comfort and light scene push-buttons comfort.} \\
\hline & - for replacement need & & \\
\hline
\end{tabular}
no. 75040001
- only for frame with large cut-out
- for installation in 1gang wall boxes

■ with anti-dismantling protection
- with white operation LED and 8 red status LEDs

■ retrieval, adjustment and storage of 8 light scenes
- dimming / position value transmitter 1 byte
- light scene push-buttons are cascadable
- second operating level for setting load groups via 3-button actuation

\section*{Light scene push-buttons}

Light scene push-button 8gang comfort
with labelling field
\begin{tabular}{lll} 
for white and polar white & \(\mathbf{7 5 1 6 8 8 8 0}\) & 1 \\
for anthracite and & \(\mathbf{7 5 1 6 8 8 8 5}\) & 1
\end{tabular}
aluminium
Light scenes max. 8;
Load groups 8 (are increased in case of cascading);
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
Labelling field length \((\mathrm{W} \times \mathrm{H}) 52,3 \times 24,9 \mathrm{~mm}\)
For bus coupling unit flush-mounted order

Order no.
Packing
unit


Push-button 2gang with room thermostat, display and labelling field
for white and polar white \(75662780 \quad 1\)
for anthracite and 756627851 aluminium

Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\);
Labelling field length \((W \times H) 52,3 \times 15,6 \mathrm{~mm}\)

\section*{For bus coupling unit flush-mounted order} no. 75040001
- with anti-dismantling protection
- with white operation LED and 4 red status LEDs
- LC display with symbol display
- display of operating mode, controller lockout, room/ outside temperature, time (clock required)
- with 2 additional display buttons
- end customer display scope parameterisable
- for switch, push-button, dimmer, shutter and room thermostat functions
- value transmitter for dimming, position, brightness and temperature values 1 and 2 byte
- extension unit for light scene push-button
- cyclic transmission can also be started via switching object
- single and two push-button operation parameterisable
■ one push-button operation for switching, pushing, shutters and dimming
- area dimming
- shutter operation concept short-long-short and long-short parameterisable
- rockers or push-button lockable via object
- alarm telegram after disconnection from bus coupling unit 1 bit or 1 byte
- with room temperature timer
- for individual single room control
- controller operating modes: comfort, standby, night and frost/heat protection mode
- for heating and/or cooling mode with/without auxiliary step
- control parameter for heating / cooling unit pre-set
- for continuous (PI) or switched (2-point) control of max. 2 control circuits
- temperature measurement via internal and/or external sensor with mean value formation
- presence button parameterisable to extend comfort
- separate window contact object
- indicator objects for heating and cooling
- with valve protection function
- object for controller status
- with button lock function
- with flash-controller technology
- programmable with ETS2 as of V1.2a and ETS3

Order no.


I on page T67

Push-button 3gang with room thermostat, display and labelling field
\begin{tabular}{lll} 
for white and polar white & 75663780 & 1 \\
for anthracite and & \(\mathbf{7 5 6 6 3 7 8 5}\) & 1
\end{tabular} aluminium

Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\); Labelling field length \((\mathrm{W} \times \mathrm{H}) 52,3 \times 24,9 \mathrm{~mm}\)

For bus coupling unit flush-mounted order no. 75040001

■ only for frame with large cut-out
- for installation in 1gang wall boxes
- with anti-dismantling protection

■ with white operation LED and 6 red status LEDs
- LC display with symbol display

■ display of operating mode, controller lockout, room/ outside temperature, time (clock required)
■ with 2 additional display buttons
■ end customer display scope parameterisable
■ for switch, push-button, dimmer, shutter and room thermostat functions
\(\square\) value transmitter for dimming, position, brightness and temperature values 1 and 2 byte
\(■\) extension unit for light scene push-button
- cyclic transmission can also be started via switching object
■ single and two push-button operation parameterisable
■ one push-button operation for switching, pushing, shutters and dimming
\(\square\) area dimming
\(■\) shutter operation concept short-long-short and long-short parameterisable
■ rockers or push-button lockable via object
- alarm telegram after disconnection from bus coupling unit 1 bit or 1 byte
- with room temperature timer
- for individual single room control

■ controller operating modes: comfort, standby, night and frost/heat protection mode
\(\square\) for heating and/or cooling mode with/without auxiliary step
- control parameter for heating / cooling unit pre-set
- for continuous (PI) or switched (2-point) control of max. 2 control circuits
- temperature measurement via internal and/or external sensor with mean value formation
- presence button parameterisable to extend comfort

■ separate window contact object
- indicator objects for heating and cooling
- with valve protection function

■ object for controller status
- with button lock function
- with flash-controller technology
- programmable with ETS2 as of V1.2a and ETS3

Order no.
\begin{tabular}{l} 
Push-button 5gang with room thermostat, \\
display and labelling field \\
for white and polar white 75665780 \\
for anthracite and \(\quad 75665785\) \\
aluminium \\
Operating temperature \(-5-+45^{\circ} \mathrm{C}\); \\
\begin{tabular}{l} 
Labelling field length \((\mathrm{W} \times \mathrm{H}) 52,3 \times 15,6 \mathrm{~mm}\)
\end{tabular} \\
\hline
\end{tabular}

For bus coupling unit flush-mounted order no. 75040001

■ only for frame with large cut-out
- for installation in 1gang wall boxes
- with anti-dismantling protection

■ with white operation LED and 10 red status LEDs
■ LC display with symbol display
■ display of operating mode, controller lockout, room/ outside temperature, time (clock required)
\(\square\) with 2 additional display buttons
■ end customer display scope parameterisable
■ for switch, push-button, dimmer, shutter and room thermostat functions
■ value transmitter for dimming, position, brightness and temperature values 1 and 2 byte
\(\square\) extension unit for light scene push-button
- cyclic transmission can also be started via switching object
■ single and two push-button operation parameterisable
■ one push-button operation for switching, pushing, shutters and dimming
- area dimming
\(■\) shutter operation concept short-long-short and long-short parameterisable
■ rockers or push-button lockable via object
- alarm telegram after disconnection from bus coupling unit 1 bit or 1 byte
- with room temperature timer

■ for individual single room control
- controller operating modes: comfort, standby, night and frost/heat protection mode
\(\square\) for heating and/or cooling mode with/without auxiliary step
■ control parameter for heating / cooling unit pre-set
- for continuous (PI) or switched (2-point) control of max. 2 control circuits
- temperature measurement via internal and/or external sensor with mean value formation
\(■\) presence button parameterisable to extend comfort
■ separate window contact object
- indicator objects for heating and cooling
- with valve protection function
\(■\) object for controller status
- with button lock function

■ with flash-controller technology
- programmable with ETS2 as of V1.2a and ETS3

Order no.
\begin{tabular}{|c|c|c|}
\hline \multicolumn{3}{|l|}{Object room thermostat with button interface and integral bus coupling unit} \\
\hline white, glossy & 75441252 & 1 \\
\hline polar white, glossy & 75441259 & 1 \\
\hline polar white, matt & 75441289 & 1 \\
\hline anthracite, matt & 75441285 & 1 \\
\hline aluminium, matt & 7544128 & \\
\hline
\end{tabular}

Output current per channel max. \(0,8 \mathrm{~mA}\);
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
Cable length, inputs/outputs, max. 5 m ;
Sensor cable length max. 50 m
Binary input 4 parameter defineable for remote sensor order no. 0161
- for single room control

■ with anti-dismantling protection
■ operating modes: comfort, standby, night lowering, frost/heat protected, dewpoint
■ for continuous (PI) or switched (2-point) control
\(\square\) for heating and/or cooling mode
- heating or cooling possible in 2 stages
- valve protection can be defined
- conduct can be defined for bus voltage return
- with programming button and red programming LED
■ with 4 independent binary inputs for potential-free contacts e.g. window magnetic contact
\(\square 4\) binary inputs or 2-3 binary inputs and 1-2 outputs parameterisable
■ bus connection via connecting terminal
■ without spreader claws
■ binary inputs / outputs with screw terminals

Order no.
Order no.
Packing
unit

\begin{tabular}{lll}
\begin{tabular}{l} 
Room thermostat with button interface \\
and integral bus coupling unit
\end{tabular} \\
white, glossy & 75441152 & \\
polar white, glossy & 75441159 & 1 \\
polar white, matt & 75441189 & 1 \\
anthracite, matt & 75441185 & 1 \\
aluminium, matt & 75441183 & 1
\end{tabular}

Set value control by setting knob +/- 0-10 K;
Output current per channel max. \(0,8 \mathrm{~mA}\);
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
Cable length, inputs/outputs, max. 5 m ;
Sensor cable length max. 50 m
Binary input 4 parameter defineable for remote sensor order no. 0161

■ for individual single room control
- with anti-dismantling protection
- operating modes:comfort, standby, night lowering, frost/heat protection, dewpoint displayed with LED
\(\square\) status-LED red is for heating, blue is for cooling and yellow is for activation
- with presence button for switching between comfort and standby mode
- presence button and setting knob can be programmed to have no functions
- for continuous (PI) or switched (2-point) control
- for heating and/or cooling mode
- heating or cooling possible in 2 stages
- valve protection can be defined
- conduct can be defined for bus voltage return
- with programming button and red programming LED
- with 4 independent binary inputs for potential-free contacts e.g. window magnetic contact
- 4 binary inputs or 2-3 binary inputs and 1-2 outputs parameterisable
- bus connection via connecting terminal
- without spreader claws
- binary inputs / outputs with screw terminals

\section*{Sensor insert}
\begin{tabular}{lrl}
\multicolumn{3}{l}{ Central plate for sensor insert } \\
white, glossy & \(\mathbf{7 5 9 4 0 4 0 2}\) & 1 \\
polar white, glossy & \(\mathbf{7 5 9 4 0 4 0 9}\) & 1 \\
polar white, matt/velvety & \(\mathbf{7 5 9 4 0 4 8 9}\) & 1 \\
anthracite, matt & \(\mathbf{7 5 9 4 0 4 8 5}\) & 1 \\
aluminium, matt & \(\mathbf{7 5 9 4 0 4 8 3}\) & 1
\end{tabular}

\section*{Attention!}

Use only with intermediate ring for central plate from the corresponding range.
Labelling field not usable.
Sensor insert order no. 75941001
- with slots for air circulation

■ for e.g. temperature sensor PT100

Order no.

\section*{Controller sensor 180 comfort with slide} switch for off/automatic/on
white, glossy 75261552
polar white, glossy \(\quad 75261559\)
polar white, matt 75261589
anthracite, matt 75261585 aluminium, matt 75261583

Nominal mounting height 1,1 m;
Range frontal approx. 10 m ;
Range lateral each approx. 6 m ;
Detection field semi-oval shaped approx. \(10 \times 12 \mathrm{~m}\);
Detection angle \(180^{\circ}\);
Detection levels 2;
Switching segments 72;
Response sensitivity programmable
approx. 20-100\% ;
Delay time 10 sec.;
Additional delay time programmable
\(130 \mathrm{msec} .-306\) hrs.;
Potentiometer for additional delay time +/-50\%;
Response brightness programmable 3-100/
unlimited Lux;
Response brightness adjustable by potentiometer +/- 50 \%;
Lockout time \(8 \mathrm{msec} .-140 \mathrm{~min}\).;
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
Dimensions assembling height \(23,5 \mathrm{~mm}\)

\section*{Attention:}

Direct sunshine can lead to false alarms when using alarm application. Avoid using detection field equiqment on windows.

Direct sunlight penetration the upward-pointing detection plane results in failure of the movement controller. Only suitable for interiors!
For bus coupling unit flush-mounted order no. 75040001
- with cover to limit detection angle to \(90^{\circ}\)
- with potentiometers for fine adjustment of the response brightness, sensitivity and delay time
\(\square\) with red diagnostic LED for brightness-independent walk test function and disassembly message
- parameter defineable lock function
- with lighting and message mode
- operating mode switched with object
- functions for lighting operating mode: Switching, Value transmitter and Light scene call
- also suitable as extension unit
- cyclic transmission possible
- alarm telegram after disconnection from bus coupling unit 1 bit

Order no.


Controller sensor 180
\begin{tabular}{lll} 
white, glossy & \(\mathbf{7 5 2 6 1 2 5 2}\) & 1 \\
polar white, glossy & \(\mathbf{7 5 2 6 1 2 5 9}\) & 1 \\
polar white, matt & \(\mathbf{7 5 2 6 1 2 8 9}\) & 1 \\
anthracite, matt & \(\mathbf{7 5 2 6 1 2 8 5}\) & 1 \\
aluminium, matt & \(\mathbf{7 5 2 6 1 2 8 3}\) & 1
\end{tabular}

Nominal mounting height \(2,2 \mathrm{~m}\);
Range frontal approx. 12 m ;
Range lateral each approx. 6 m ;
At assembly height \(1,1 \mathrm{~m}\);
Range frontal approx. 6 m ;
Range lateral each approx. 3 m;
Detection field semi-oval shaped approx. \(12 \times 12 \mathrm{~m}\);
Detection angle \(180^{\circ}\);
Detection levels 2;
Switching segments 72 ;
Response sensitivity programmable
approx. 20-100\%;
Delay time 10 sec.;
Additional delay time programmable
130 msec.- 152 hrs.;
Response brightness programmable 1-1000/
unlimited Lux;
Lockout time 8 msec.- 140 min.;
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
Dimensions assembling height \(23,5 \mathrm{~mm}\)
Application as for order no. 752611 ..
When movement of a person is detected a parameter defined data telegram is sent.
For bus coupling unit flush-mounted order no. 75040001

■ with cover to limit detection angle to \(90^{\circ}\)
- with potentiometer for fine adjustment of the response sensitivity
- parameter defineable lock function

■ also suitable as extension unit
- cyclic transmission possible

Order no.


Controller sensor 180 comfort with slide switch for off/automatic/on
white, glossy 75261652
polar white, glossy 75261659
polar white, matt 75261689
anthracite, matt 75261685
aluminium, matt 75261683
Nominal mounting height 2,2 m;
Range frontal approx. 12 m ;
Range lateral each approx. 6 m;
At assembly height \(1,1 \mathrm{~m}\);
Range frontal approx. 6 m ;
Range lateral each approx. 3 m ;
Detection field semi-oval shaped approx. \(12 \times 12 \mathrm{~m}\);
Detection angle \(180^{\circ}\);
Detection levels 2;
Switching segments 72;
Response sensitivity programmable
approx. 20 - \(100 \%\);
Delay time 10 sec.;
Additional delay time programmable
\(130 \mathrm{msec} .-306\) hrs.;
Potentiometer for additional delay time +/- \(50 \%\); Response brightness programmable 3-100/ unlimited Lux;
Response brightness adjustable by potentiometer +/- 50 \%;
Lockout time 8 msec.- 140 min.;
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
Dimensions assembling height \(23,5 \mathrm{~mm}\)
Application as for order no. 752615 ..

\section*{Attention:}

Direct sunlight can lead to false alarms when using alarm application. Alignment of detection field towards window must be avoided.

When movement of a person is detected a parameter defined data telegram is sent.
For bus coupling unit flush-mounted order no. 75040001
- with cover to limit detection angle to \(90^{\circ}\)
- with potentiometers for fine adjustment of the response brightness, sensitivity and delay time
- with red diagnostic LED for brightness-independent walk test function and disassembly message
- parameter defineable lock function

■ with lighting and message mode
■ operating mode switched with object
- functions for lighting operating mode: Switching, Value transmitter and Light scene call
\(\square\) also suitable as extension unit
■ cyclic transmission possible
- alarm telegram after disconnection from bus coupling unit 1 bit

Order no.
Packing
unit

\section*{INFO DISPLAY}

Info display
\begin{tabular}{lll} 
white, glossy & \(\mathbf{7 5 8 6 0 0 5 2}\) & 1 \\
polar white, glossy & \(\mathbf{7 5 8 6 0 0 5 9}\) & 1 \\
polar white, matt & \(\mathbf{7 5 8 6 0 0 8 9}\) & 1 \\
anthracite, matt & \(\mathbf{7 5 8 6 0 0 8 5}\) & 1 \\
aluminium, matt & \(\mathbf{7 5 8 6 0 0 8 3}\) & 1
\end{tabular}
aluminium, matt
Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\)
Commissioning possible only with ETS3 and ETS2 V1.2 SR A.
For bus coupling unit flush-mounted order no. 75040001
- with anti-dismantling protection

■ LC display with illumination
- programmable to 1 , 2 or 4 lines
- 16 characters per line on max. 12 pages
\(\square\) to display and initiate actions
- for max. 48 signalling groups

■ with piezo signal generator
- visual/acoustic alarm message, with reset
- German/English

BLANK PLATES


\section*{Blank plate}
\begin{tabular}{lll} 
white, glossy & \(\mathbf{7 5 9 4 0 2 5 2}\) & 1 \\
polar white, glossy & \(\mathbf{7 5 9 4 0 2 5 9}\) & 1 \\
polar white, matt & \(\mathbf{7 5 9 4 0 2 8 9}\) & 1 \\
anthracite, matt & \(\mathbf{7 5 9 4 0 2 8 5}\) & 1 \\
aluminium, matt & \(\mathbf{7 5 9 4 0 2 8 3}\) & 1
\end{tabular}

For bus coupling unit order no. 750400 01, 75040003

■ for bus coupling units flush-mounted

AT FIRST GLANCE
The push-buttons of the Berker Q. 1 are intended for classical installation with a frame. With an edge length of 58 mm , the frame cut-out provides extra space for a large button field.

Practical experience from the field of building management systems has shown that there is a need to integrate as many functions as possible into a single control-section. Berker addresses this need with the push-button 4gang, and can offer operation of up to eight functions from a single 1gang frame. The white colour of the operation LED and the orange status LED blend elegantly with the colour scheme of the product line.

Each button can be labelled. Labelling sheets are available for the various button sizes of the 1gang to 5gang product variants; these sheets can be printed on using either inkjet or laser printers. Suitable formatting templates for the labels are provided in Word format at www.berker.de; no additional software is needed to use these.


\section*{EASIER INSTALLATION}

The design of the push-buttons makes things much simpler.
The Q. 1 push-buttons' design as a monoblock, i.e. with integrated bus coupling unit, makes installation significantly easier.
- Mount supporting ring on the wall box
- Connect bus line
- Mount push-button and frame on the supporting ring

There is no need to select a suitable bus coupling unit.
Because the push-button only has to be installed just before start-up, damage or fouling due to construction and painting work are virtually precluded.

Optionally the push-button can be protected against unauthorised removal by fixing it to the supporting ring with a screw under the push-button cover.


\section*{FUNCTIONS}

The following service-proven array of functions is available:
- Push-buttons - the economical variant for standard functions for controlling lights and blinds.
- Comfort push-buttons - with multifunctional applications and extensive functions for controlling lights and blinds:
- with a thermostat extension unit that can also control the room temperature
- up to eight scenes with eight output channels each can be stored - light scene push-buttons are no longer needed
- Push-buttons with room thermostat and display - a room control unit that in addition to the functions of the push-button also provides convenient control of the room temperature. The display shows all of the necessary information and has the service-proven integrated buttons for controlling the thermostat functions.


Order no.
Order no.

\section*{PUSH-BUTTONS}

Push-buttons with labelling field


\section*{Push-button 1gang with labelling field and bus coupling unit \\ polar white, velvety \(\quad 75141229\) \\ 1}

Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
Labelling field length ( \(\mathrm{W} \times \mathrm{H}\) ) \(56,4 \times 56,4 \mathrm{~mm}\)
Labelling field sheets order no. 94982901 separate available.
- with anti-dismantling protection
- with white operation LED and 2 orange status LEDs
- for switch, push-button, dimmer and shutter functions
- dimming / position value transmitter 1 byte
- extension unit for light scene push-button


\section*{Push-button 2gang with labelling fields} and bus coupling unit
polar white, velvety 75142229
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
Labelling field length ( \(\mathrm{W} \times \mathrm{H}\) ) \(56,4 \times 26,8 \mathrm{~mm}\)
Labelling field sheets order no. 94983002 separate available.
- with anti-dismantling protection
- with white operation LED and 4 orange status LEDs
- for switch, push-button, dimmer and shutter functions
- dimming / position value transmitter 1 byte
- extension unit for light scene push-button


\section*{Push-button 3gang with labelling fields} and bus coupling unit
polar white, velvety 75143229
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
Labelling field length \((\mathrm{W} \times \mathrm{H}) 56,4 \times 17 \mathrm{~mm}\)
Labelling field sheets order no. 94983103 separate available.
- with anti-dismantling protection
- with white operation LED and 6 orange status LEDs
- for switch, push-button, dimmer and shutter functions
- dimming / position value transmitter 1 byte
- extension unit for light scene push-button


Push-button 4gang with labelling fields and bus coupling unit
polar white, velvety \(\quad \mathbf{7 5 1 4} 4229\)
1
Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\);
Labelling field length (W x H) 56,4 x 12 mm
Labelling field sheets order no. 94983204 separate available.

■ with anti-dismantling protection
\(\square\) with white operation LED and 8 orange status LEDs
\(\square\) for switch, push-button, dimmer and shutter functions
■ dimming / position value transmitter 1 byte
- extension unit for light scene push-button

\section*{Push-buttons comfort with labelling field}
Push-button 1gang comfort with labelling field
and bus coupling unit
polar white, velvety \(\quad 75141329\)
\begin{tabular}{l} 
Operating temperature \(-5-+45{ }^{\circ} \mathrm{C} ;\)
\end{tabular}
\begin{tabular}{l} 
Labelling field length \((\mathrm{W} \times \mathrm{H}) 56,4 \times 56,4 \mathrm{~mm}\)
\end{tabular}
\begin{tabular}{l} 
Labelling field sheets order no. 94982901 separate \\
available.
\end{tabular} available.
- with anti-dismantling protection
- with white operation LED and 2 orange status LEDs
- for switch, push-button, dimmer and shutter functions
- value transmitter for dimming, position, brightness and temperature values 1 and 2 byte
- retrieval, adjustment and storage of 8 light scenes
- extension unit for light scene push-button
- can be used as a controller extension unit
- cyclic transmission can also be started via switching object
■ single and two push-button operation parameterisable
- one push-button operation for switching, pushing, shutters and dimming


\section*{Push-button 2gang comfort with labelling}
fields and bus coupling unit
polar white, velvety 751423291

Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
Labelling field length \((W \times H) 56,4 \times 26,8 \mathrm{~mm}\)
Labelling field sheets order no. 94983002 separate available.
- with anti-dismantling protection
- with white operation LED and 4 orange status LEDs
- for switch, push-button, dimmer and shutter functions
- value transmitter for dimming, position, brightness and temperature values 1 and 2 byte
- retrieval, adjustment and storage of 8 light scenes
- extension unit for light scene push-button
- can be used as a controller extension unit
- cyclic transmission can also be started via switching object
■ single and two push-button operation parameterisable
- one push-button operation for switching, pushing, shutters and dimming

Order no.
Packing
unit

\section*{Push-button 3gang comfort with labelling fields and bus coupling unit polar white, velvety \(\quad 75143329\) \\ Operating temperature \(-5-+45^{\circ} \mathrm{C}\); Labelling field length (W x H) 56,4 x 17 mm}

Labelling field sheets order no. 94983103 separate available.

■ with anti-dismantling protection
\(\square\) with white operation LED and 6 orange status LEDs
■ for switch, push-button, dimmer and shutter functions
■ value transmitter for dimming, position, brightness and temperature values 1 and 2 byte
\(\square\) retrieval, adjustment and storage of 8 light scenes
\(■\) extension unit for light scene push-button
■ can be used as a controller extension unit
- cyclic transmission can also be started via switching object
■ single and two push-button operation parameterisable
■ one push-button operation for switching, pushing, shutters and dimming

\section*{Push-button 4gang comfort} with labelling fields and bus coupling unit polar white, velvety 75144329
Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\); Labelling field length \((\mathrm{W} \times \mathrm{H}) 56,4 \times 12 \mathrm{~mm}\)

Labelling field sheets order no. 94983204 separate available.

■ with anti-dismantling protection
\(\square\) with white operation LED and 8 orange status LEDs
- for switch, push-button, dimmer and shutter functions
■ value transmitter for dimming, position, brightness and temperature values 1 and 2 byte
■ retrieval, adjustment and storage of 8 light scenes
■ extension unit for light scene push-button
■ can be used as a controller extension unit
■ cyclic transmission can also be started via switching object
- single and two push-button operation parameterisable
■ one push-button operation for switching, pushing, shutters and dimming

Order no.
Packing
unit

\section*{Push-buttons with room thermostat and display}


I on page T69

Push-button 2gang with labelling fields, with room thermostat, display and bus coupling unit
polar white, velvety 756627291
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
Labelling field length (W x H) 56,4 x 17 mm
Labelling field sheets order no. 94983103 separate available.
- with anti-dismantling protection

■ with white operation LED and 4 orange status LEDs
■ LC display with symbol display
■ display of operating mode, controller lockout, room/ outside temperature, time (clock required)
- with 2 additional display buttons

■ end customer display scope parameterisable
- for switch, push-button, dimmer, shutter and room thermostat functions
■ value transmitter for dimming, position, brightness and temperature values 1 and 2 byte
■ retrieval, adjustment and storage of 8 light scenes
- extension unit for light scene push-button

■ cyclic transmission can also be started via switching object
- single and two push-button operation parameterisable
■ one push-button operation for switching, pushing, shutters and dimming
\(\square\) area dimming
■ shutter operation concept short-long-short and long-short parameterisable
■ rockers or push-button lockable via object
- with room temperature timer

■ for individual single room control
- controller operating modes: comfort, standby, night and frost/heat protection mode
\(\square\) for heating and/or cooling mode with/without auxiliary step
■ control parameter for heating / cooling unit pre-set
\(\square\) for continuous (PI) or switched (2-point) control of max. 2 control circuits
\(\square\) temperature measurement via internal and/or external sensor with mean value formation
■ presence button parameterisable to extend comfort
■ separate window contact object
\(\square\) indicator objects for heating and cooling
■ with valve protection function
- object for controller status

■ with button lock function
■ with flash-controller technology
■ programmable with ETS2 as of V1.2a and ETS3

Order no.
Packing
unit


1 on page T69
Push-button 3gang with labelling fields,
with room thermostat, display
and bus coupling unit
polar white, velvety 75663729
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
Labelling field length (W H ) \(56,4 \times 26,8 \mathrm{~mm}\)
Labelling field sheets order no. 94983002 separate
available. available.
- only for frame with large cut-out
- for installation in 1gang wall boxes
- with anti-dismantling protection
- with white operation LED and 6 orange status LEDs
- LC display with symbol display

■ display of operating mode, controller lockout, room/ outside temperature, time (clock required)
- with 2 additional display buttons
\(\square\) end customer display scope parameterisable
- for switch, push-button, dimmer, shutter and room thermostat functions
- value transmitter for dimming, position, brightness and temperature values 1 and 2 byte
\(\square\) retrieval, adjustment and storage of 8 light scenes
- extension unit for light scene push-button
- cyclic transmission can also be started via switching object
■ single and two push-button operation parameterisable
- one push-button operation for switching, pushing, shutters and dimming
- area dimming
- shutter operation concept short-long-short and long-short parameterisable
■ rockers or push-button lockable via object
- alarm telegram after disconnection from bus coupling unit 1 bit or 1 byte
- with room temperature timer

■ for individual single room control
\(\square\) controller operating modes: comfort, standby, night and frost/heat protection mode
- for heating and/or cooling mode with/without auxiliary step
■ control parameter for heating / cooling unit pre-set
- for continuous (PI) or switched (2-point) control of max. 2 control circuits
- temperature measurement via internal and/or external sensor with mean value formation
\(\square\) presence button parameterisable to extend comfort
■ separate window contact object
■ indicator objects for heating and cooling
\(\square\) with valve protection function
- object for controller status
- with button lock function
- with flash-controller technology
- programmable with ETS2 as of V1.2a and ETS3


1 on page \(T 69\)

\section*{Push-button 5gang with labelling fields, with room thermostat, display and bus coupling unit} polar white, velvety 75665729 1

Operating temperature \(-5-+45^{\circ} \mathrm{C}\); Labelling field length \((\mathrm{W} \times \mathrm{H}) 56,4 \times 17 \mathrm{~mm}\)

Labelling field sheets order no. 94983103 separate available.
- only for frame with large cut-out
\(\square\) for installation in 1gang wall boxes
■ with anti-dismantling protection
■ with white operation LED and 10 orange status LEDs
- LC display with symbol display
- display of operating mode, controller lockout, room/ outside temperature, time (clock required)
- with 2 additional display buttons

■ end customer display scope parameterisable
- for switch, push-button, dimmer, shutter and room thermostat functions
■ value transmitter for dimming, position, brightness and temperature values 1 and 2 byte
\(\square\) retrieval, adjustment and storage of 8 light scenes
■ extension unit for light scene push-button
- cyclic transmission can also be started via switching object
■ single and two push-button operation parameterisable
■ one push-button operation for switching, pushing, shutters and dimming
\(\square\) area dimming
■ shutter operation concept short-long-short and long-short parameterisable
- rockers or push-button lockable via object
- alarm telegram after disconnection from bus coupling unit 1 bit or 1 byte
■ with room temperature timer
■ for individual single room control
- controller operating modes: comfort, standby, night and frost/heat protection mode
\(\square\) for heating and/or cooling mode with/without auxiliary step
■ control parameter for heating / cooling unit pre-set
\(\square\) for continuous (PI) or switched (2-point) control of max. 2 control circuits
\(\square\) temperature measurement via internal and/or external sensor with mean value formation
\(\square\) presence button parameterisable to extend comfort
■ separate window contact object
\(\square\) indicator objects for heating and cooling
\(\square\) with valve protection function
■ object for controller status
- with button lock function

■ with flash-controller technology
- programmable with ETS2 as of V1.2a and ETS3

Order no.
Order no
Packing
unit

\section*{ACCESSORIES}

Labelling field arcs
Labelling field arcs DIN A4
polar white \(\quad 94982901\)
Suitable for inkjet and laser printers.
UV proof.

Available as a download in Word format at www. berker.de.
For push-button 1gang with labelling field and bus coupling unit order no. 75141229
For push-button 1gang comfort with labelling field and bus coupling unit order no. 75141329

■ Foil with 8 fields

\section*{Labelling field arcs DIN A4}
polar white 94983002
1
Suitable for inkjet and laser printers.
UV proof.
Available as a download in Word format at www. berker.de.
For push-button 2gang with labelling fields and bus coupling unit order no. 75142229
For push-button 2gang comfort with labelling fields and bus coupling unit order no. 75142329 For push-button 3gang with labelling fields, room thermostat, display and bus coupling unit order no. 75663729
- Foil with 18 fields

\section*{Labelling field arcs DIN A4 \\ polar white 94983103}

Suitable for inkjet and laser printers.
UV proof.
Available as a download in Word format at www. berker.de.
For push-button 3gang with labelling field and bus coupling unit order no. 75143229
For push-button 3gang comfort with labelling fields and bus coupling unit order no. 75143329
For push-button 2 gang with labelling fields, room thermostat, display and bus coupling unit order no. 75662729
For push-button 5 gang with labelling fields, room thermostat, display and bus coupling unit order no. 75665729
- Foil with 30 fields

\section*{Labelling field arcs DIN A4}
polar white 94983204
1

Suitable for inkjet and laser printers.
UV proof.
Available as a download in Word format at www. berker.de.
For push-button 4gang with labelling fields and bus coupling unit order no. 75144229
For push-button 4gang comfort with labelling fields and bus coupling unit order no. 75144329

\section*{THERMOSTATS}

Object room thermostat with button interface and integral bus coupling unit polar white, velvety \(\quad 75441229\) 1
Output current per channel max. \(0,8 \mathrm{~mA}\);
Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\);
Cable length, inputs/outputs, max. 5 m ;
Sensor cable length max. 50 m
Binary input 4 parameter defineable for remote sensor order no. 0161

■ for single room control
- with anti-dismantling protection

■ operating modes: comfort, standby, night lowering, frost/heat protected, dewpoint
■ for continuous (PI) or switched (2-point) control
- for heating and/or cooling mode

■ heating or cooling possible in 2 stages
- valve protection can be defined
- conduct can be defined for bus voltage return

■ with programming button and red programming LED
- with 4 independent binary inputs for potential-free contacts e.g. window magnetic contact
\(\square 4\) binary inputs or 2-3 binary inputs and 1-2 outputs parameterisable
■ bus connection via connecting terminal
- without spreader claws

■ binary inputs / outputs with screw terminals


\section*{Room thermostat with button interface and} integral bus coupling unit polar white, velvety \(\quad 75441129\) 1
Set value control by setting knob +/- 0-10 K;
Output current per channel max. 0,8 mA;
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
Cable length, inputs/outputs, max. 5 m ;
Sensor cable length max. 50 m
Binary input 4 parameter defineable for remote sensor order no. 0161

■ for individual single room control
\(\square\) with anti-dismantling protection
■ operating modes:comfort, standby, night lowering, frost/heat protection, dewpoint displayed with LED
\(\square\) status-LED red is for heating, blue is for cooling and yellow is for activation
- with presence button for switching between comfort and standby mode
- presence button and setting knob can be programmed to have no functions
■ for continuous (PI) or switched (2-point) control
\(\square\) for heating and/or cooling mode
\(\square\) heating or cooling possible in 2 stages
\(\square\) valve protection can be defined
- conduct can be defined for bus voltage return

■ with programming button and red programming LED
- with 4 independent binary inputs for potential-free contacts e.g. window magnetic contact
\(\square 4\) binary inputs or 2-3 binary inputs and 1-2 outputs parameterisable
\(\square\) bus connection via connecting terminal
■ without spreader claws
■ binary inputs / outputs with screw terminals

Order no.
Packing unit

\section*{Sensor insert}


\section*{CONTROLLERS}

Controller sensor 180
polar white, velvety 75261129
Nominal mounting height \(1,1 \mathrm{~m}\);
Range frontal approx. 10 m;
Range lateral each approx. 6 m ;
Detection field semi-oval shaped approx. \(10 \times 12 \mathrm{~m}\);
Detection angle \(180^{\circ}\);
Detection levels 2;
Switching segments 72;
Response sensitivity programmable
approx. 20-100 \% ;
Delay time 10 sec .;
Additional delay time programmable
130 msec.- 152 hrs.;
Response brightness programmable 1-1000/
unlimited Lux;
Lockout time 8 msec.- 140 min.;
Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\);
Dimensions assembling height \(23,5 \mathrm{~mm}\)
Direct sunlight penetration the upward-pointing detection plane results in failure of the movement controller. Only suitable for interiors!
When movement of a person is detected a parameter defined data telegram is sent
```

For bus coupling unit flush-mounted order no. 75040001
$\square$ with cover to limit detection angle to $90^{\circ}$

- with potentiometer for fine adjustment of the response sensitivity
■ parameter defineable lock function
$\square$ also suitable as extension unit
- cyclic transmission possible

```

\section*{Controller sensor 180}
polar white, velvety 75261229
1
Nominal mounting height \(2,2 \mathrm{~m}\);
Range frontal approx. 12 m ;
Range lateral each approx. 6 m;
At assembly height 1,1 m;
Range frontal approx. 6 m ;
Range lateral each approx. 3 m;
Detection field semi-oval shaped approx. \(12 \times 12 \mathrm{~m}\);
Detection angle \(180^{\circ}\);
Detection levels 2;
Switching segments 72;
Response sensitivity programmable
approx. 20-100 \%
Delay time 10 sec ;;
Additional delay time programmable
130 msec.- 152 hrs.;
Response brightness programmable 1-1000/
unlimited Lux;
Lockout time 8 msec.- 140 min.;
Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\);
Dimensions assembling height 23,5 mm

Order no.

Application as for order no. 752611 ..
When movement of a person is detected a parameter defined data telegram is sent.

\section*{For bus coupling unit flush-mounted order} no. 75040001
\(\square\) with cover to limit detection angle to \(90^{\circ}\)
\(\square\) with potentiometer for fine adjustment of the response sensitivity
- parameter defineable lock function also suitable as extension unit

\section*{Controller sensor 180 comfort}
with slide switch for off/automatic/on polar white, velvety 75261529
Nominal mounting height \(1,1 \mathrm{~m}\)
Range frontal approx. 10 m ;
Range lateral each approx. 6 m ;
Detection field semi-oval shaped approx. \(10 \times 12 \mathrm{~m}\);
Detection angle \(180^{\circ}\);
Detection levels 2;
Switching segments 72;
Response sensitivity programmable
approx. 20-100 \% ;
Delay time 10 sec.;
Additional delay time programmable
130 msec.- 306 hrs.;
Potentiometer for additional delay time +/- 50 \%;
Response brightness programmable 3-100/ unlimited Lux;
Response brightness adjustable by potentiometer +/- 50 \%;
Lockout time 8 msec.- 140 min.;
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
Dimensions assembling height \(23,5 \mathrm{~mm}\)
Attention:
Direct sunshine can lead to false alarms when using alarm application. Avoid using detection field equiqment on windows.
Direct sunlight penetration the upward-pointing detection plane results in failure of the movement controller. Only suitable for interiors!
When movement of a person is detected a parameter defined data telegram is sent.

\section*{For bus coupling unit flush-mounted order}
no. 75040001
\(\square\) with cover to limit detection angle to \(90^{\circ}\)
- with potentiometers for fine adjustment of the response brightness, sensitivity and delay time
\(\square\) with red diagnostic LED for brightness-independent walk test function and disassembly message
- parameter defineable lock function

■ with lighting and message mode
- operating mode switched with object
\(\square\) functions for lighting operating mode: Switching, Value transmitter and Light scene call
- also suitable as extension unit
- cyclic transmission possible

■ alarm telegram after disconnection from bus coupling unit 1 bit

Order no.
Packing
unit

\section*{Controller sensor 180 comfort} with slide switch for off/automatic/on
polar white, velvety 75261629
Nominal mounting height \(2,2 \mathrm{~m}\);
Range frontal approx. 12 m ;
Range lateral each approx. 6 m ;
At assembly height 1,1 m;
Range frontal approx. 6 m ;
Range lateral each approx. 3 m;
Detection field semi-oval shaped approx. \(12 \times 12 \mathrm{~m}\);
Detection angle \(180^{\circ}\);
Detection levels 2;
Switching segments 72;
Response sensitivity programmable
approx. 20-100 \% ;
Delay time 10 sec .;
Additional delay time programmable
\(130 \mathrm{msec} .-306 \mathrm{hrs}\).;
Potentiometer for additional delay time +/-50 \%;
Response brightness programmable 3-100/
unlimited Lux;
Response brightness adjustable by potentiometer +/- 50 \%;
Lockout time 8 msec.- 140 min .;
Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\);
Dimensions assembling height \(23,5 \mathrm{~mm}\)
Application as for order no. 752615 ..

\section*{Attention:}

Direct sunlight can lead to false alarms when using alarm application. Alignment of detection field towards window must be avoided.

When movement of a person is detected a parameter defined data telegram is sent.
For bus coupling unit flush-mounted order no. 75040001
\(\square\) with cover to limit detection angle to \(90^{\circ}\)
■ with potentiometers for fine adjustment of the response brightness, sensitivity and delay time
\(\square\) with red diagnostic LED for brightness-independent walk test function and disassembly message
■ parameter defineable lock function
\(\square\) with lighting and message mode
■ operating mode switched with object
\(\square\) functions for lighting operating mode: Switching, Value transmitter and Light scene call
■ also suitable as extension unit
- cyclic transmission possible
- alarm telegram after disconnection from bus coupling unit 1 bit

Order no.

Info display
polar white, velvety \(\quad 7586 \mathbf{0 0 2 9} 1\)

Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\)
Commissioning possible only with ETS3 and ETS2 V1.2 SR A.
For bus coupling unit flush-mounted order no. 75040001
- with anti-dismantling protection
- LC display with illumination
- programmable to 1 , 2 or 4 lines
- 16 characters per line on max. 12 pages

■ to display and initiate actions
■ for max. 48 signalling groups
- with piezo signal generator

■ visual/acoustic alarm message, with reset
■ German/English

\section*{BLANK PLATES}

\section*{Blank plate}
polar white, velvety 759402291

For bus coupling unit order no. 750400 01, 75040003
- for bus coupling units flush-mounted

Order no.
Packing unit

PUSH-BUTTONS
Push-buttons with labelling field
\begin{tabular}{lll} 
Push-button 1gang with labelling field \\
for white and polar white & 75161370 & 1 \\
anthracite & 75161375 & 1 \\
aluminium & 75161374 & 1 \\
stainless steel & \(\mathbf{7 5 1 6 1 3 7 3}\) & 1
\end{tabular}

Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\);
Labelling field length \((\mathrm{W} \times \mathrm{H}) 66,8 \times 52,8 \mathrm{~mm}\)
For bus coupling unit flush-mounted order no. 75040001
- with anti-dismantling protection
- with white operation LED and 2 red status LEDs
- for switch, push-button, dimmer and shutter functions
- dimming / position value transmitter 1 byte
- extension unit for light scene push-button
\begin{tabular}{lcl} 
Push-button 2gang with labelling field & \\
for white and polar white & \(\mathbf{7 5 1 6} 2370\) & 1 \\
anthracite & \(\mathbf{7 5 1 6} 2375\) & 1 \\
aluminium & \(\mathbf{7 5 1 6} 2374\) & 1 \\
stainless steel & \(\mathbf{7 5 1 6} 2373\) & 1
\end{tabular}

Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
Labelling field length \((\mathrm{W} \times \mathrm{H}) 66,8 \times 25 \mathrm{~mm}\)
For bus coupling unit flush-mounted order no. 75040001
- with anti-dismantling protection
- with white operation LED and 4 red status LEDs
- for switch, push-button, dimmer and shutter functions
- dimming / position value transmitter 1 byte
- extension unit for light scene push-button
\begin{tabular}{lll} 
Push-button 3gang with labelling field \\
for white and polar white & 75163370 & 1 \\
anthracite & 75163375 & 1 \\
aluminium & 75163374 & 1 \\
stainless steel & 75163373 & 1
\end{tabular}

Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
Labelling field length ( \(\mathrm{W} \times \mathrm{H}\) ) \(66,8 \times 15,7 \mathrm{~mm}\)
For bus coupling unit flush-mounted order no. 75040001
with anti-dismantling protection
with white operation LED and 6 red status LEDs
- for switch, push-button, dimmer and shutter functions
- dimming / position value transmitter 1 byte
extension unit for light scene push-button

Order no.
Packing
unit
\begin{tabular}{|lll|}
\hline & \multicolumn{3}{l|}{ Push-button 4gang with labelling field } \\
for white and polar white & \(\mathbf{7 5 1 6 ~ 4 3 ~ 7 0 ~}\) & 1 \\
anthracite & \(\mathbf{7 5 1 6 4 3 7 5}\) & 1 \\
& aluminium & \(\mathbf{7 5 1 6 4 3 7 4}\) \\
stainless steel & \(\mathbf{7 5 1 6 4 3 7 3}\) & 1 \\
\hline
\end{tabular}

Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
Labelling field length \((W \times H) 66,8 \times 25 \mathrm{~mm}\)
For bus coupling unit flush-mounted order
no. 75040001
- only for frame with large cut-out
- for installation in 1 gang wall boxes
- with anti-dismantling protection
with white operation LED and 8 red status LEDs
- for switch, dimmer and shutter functions
- dimming / position value transmitter 1 byte
- extension unit for light scene push-button

\section*{Push-buttons comfort with labelling field}

Push-button 1gang comfort with labelling field
for white and polar white \(75161770 \quad 1\)
anthracite \(75161775 \quad 1\)
aluminium 75161774
stainless steel \(\quad 751617731\)

Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
Labelling field length ( \(\mathrm{W} \times \mathrm{H}\) ) \(66,8 \times 52,8 \mathrm{~mm}\)
For bus coupling unit flush-mounted order no. 75040001
- with anti-dismantling protection
- with white operation LED and 2 red status LEDs
- for switch, push-button, dimmer and shutter functions
- value transmitter for dimming, position, brightness and temperature values 1 and 2 byte
- extension unit for light scene push-button
- cyclic transmission can also be started via switching object
- alarm telegram after disconnection from bus coupling unit 1 bit or 1 byte
single and two push-button operation parameterisable
- one push-button operation for switching, pushing, shutters and dimming
- activation of second user level via object

Order no.

Order no.
Packing
\begin{tabular}{lcc} 
Push-button 2gang comfort with labelling field \\
for white and polar white & \(\mathbf{7 5 1 6 2 7} \mathbf{7 0}\) & 1 \\
anthracite & \(\mathbf{7 5 1 6 2 7} \mathbf{7 5}\) & 1 \\
aluminium & \(\mathbf{7 5 1 6 2 7} \mathbf{7 4}\) & 1 \\
stainless steel & \(\mathbf{7 5 1 6 2 7} \mathbf{7 3}\) & 1
\end{tabular}

Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\);
Labelling field length \((W \times H) 66,8 \times 25 \mathrm{~mm}\)
For bus coupling unit flush-mounted order no. 75040001

■ with anti-dismantling protection
\(\square\) with white operation LED and 4 red status LEDs
\(\square\) for switch, push-button, dimmer and shutter functions
■ value transmitter for dimming, position, brightness and temperature values 1 and 2 byte
■ extension unit for light scene push-button
■ cyclic transmission can also be started via switching object
- alarm telegram after disconnection from bus coupling unit 1 bit or 1 byte
- single and two push-button operation parameterisable
■ one push-button operation for switching, pushing, shutters and dimming
■ activation of second user level via object
Push-button 3gang comfort with labelling field
\begin{tabular}{lll} 
for white and polar white & \(\mathbf{7 5 1 6 ~ 3 7 ~ 7 0 ~}\) & 1 \\
anthracite & \(\mathbf{7 5 1 6 3 7 7 5}\) & 1 \\
aluminium & \(\mathbf{7 5 1 6 3 7 7 4}\) & 1 \\
stainless steel & \(\mathbf{7 5 1 6 3 7 \mathbf { 7 3 }}\) & 1
\end{tabular}

Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
Labelling field length \((\mathrm{W} \times \mathrm{H}) 66,8 \times 15,7 \mathrm{~mm}\)
For bus coupling unit flush-mounted order no. 75040001

■ with anti-dismantling protection
■ with white operation LED and 6 red status LEDs
\(\square\) for switch, push-button, dimmer and shutter functions
■ value transmitter for dimming, position, brightness and temperature values 1 and 2 byte
\(\square\) extension unit for light scene push-button
- cyclic transmission can also be started via switching object
- alarm telegram after disconnection from bus coupling unit 1 bit or 1 byte
■ single and two push-button operation parameterisable
■ one push-button operation for switching, pushing, shutters and dimming
■ activation of second user level via object
\begin{tabular}{|c|c|}
\hline & Push-button 4gang comfort with labelling field \\
\hline & for white and polar white 75164770 \\
\hline & anthracite \(\quad 75164775\) \\
\hline & aluminium 75164774 \\
\hline & stainless steel \(\quad 75164773\) \\
\hline & \begin{tabular}{l}
Operating temperature \(-5-+45^{\circ} \mathrm{C}\); \\
Labelling field length ( \(\mathrm{W} \times \mathrm{H}\) ) \(66,8 \times 25 \mathrm{~mm}\)
\end{tabular} \\
\hline & For bus coupling unit flush-mounted order no. 75040001 \\
\hline & \begin{tabular}{l}
only for frame with large cut-out \\
for installation in 1gang wall boxes \\
with anti-dismantling protection \\
with white operation LED and 8 red status LEDs \\
for switch, push-button, dimmer and shutter functions \\
value transmitter for dimming, position, brightness and temperature values 1 and 2 byte \\
extension unit for light scene push-button \\
cyclic transmission can also be started via switching object \\
lockable via 3-button actuation \\
alarm telegram after disconnection from bus coupling unit 1 bit or 1 byte \\
single and two push-button operation parameterisable \\
one push-button operation for switching, pushing, shutters and dimming \\
second operating level via object or 3-button handle
\end{tabular} \\
\hline \multicolumn{2}{|l|}{Light scene push-buttons} \\
\hline & \multirow[t]{2}{*}{Light scene push-button 8gang comfort with labelling field} \\
\hline & \\
\hline & for white and polar white 75168870 \\
\hline & anthracite 75168875 \\
\hline & aluminium 75168874 \\
\hline & stainless steel \(\quad 75168873\) \\
\hline & \begin{tabular}{l}
Light scenes max. 8; \\
Load groups 8 (are increased in case of cascading); \\
Operating temperature \(-5-+45^{\circ} \mathrm{C}\); \\
Labelling field length ( \(\mathrm{W} \times \mathrm{H}\) ) \(66,8 \times 25 \mathrm{~mm}\)
\end{tabular} \\
\hline & For bus coupling unit flush-mounted order no. 75040001 \\
\hline & \begin{tabular}{l}
- only for frame with large cut-out \\
- for installation in 1 gang wall boxes \\
- with anti-dismantling protection \\
- with white operation LED and 8 red status LEDs \\
- retrieval, adjustment and storage of 8 light scenes \\
- dimming / position value transmitter 1 byte \\
- light scene push-buttons are cascadable \\
second operating level for setting load groups via 3-button actuation
\end{tabular} \\
\hline
\end{tabular}

Order no.
Packing
unit


I on page T69
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
Labelling field length (W x H) 66, \(8 \times 15,7 \mathrm{~mm}\)

For bus coupling unit flush-mounted order no. 75040001
- with anti-dismantling protection
- with white operation LED and 4 red status LEDs
- LC display with symbol display
- display of operating mode, controller lockout, room/ outside temperature, time (clock required)
\(\square\) with 2 additional display buttons
- end customer display scope parameterisable
- for switch, push-button, dimmer, shutter and room thermostat functions
- value transmitter for dimming, position, brightness and temperature values 1 and 2 byte
- extension unit for light scene push-button
- cyclic transmission can also be started via switching object
- single and two push-button operation parameterisable
- one push-button operation for switching, pushing, shutters and dimming
- area dimming
- shutter operation concept short-long-short and long-short parameterisable
- rockers or push-button lockable via object
- alarm telegram after disconnection from bus coupling unit 1 bit or 1 byte
\(\square\) with room temperature timer
■ for individual single room control
- controller operating modes: comfort, standby, night and frost/heat protection mode
\(\square\) for heating and/or cooling mode with/without auxiliary step
- control parameter for heating / cooling unit pre-set
\(\square\) for continuous (PI) or switched (2-point) control of max. 2 control circuits
■ temperature measurement via internal and/or external sensor with mean value formation
\(\square\) presence button parameterisable to extend comfort
- separate window contact object

■ indicator objects for heating and cooling
\(\square\) with valve protection function
- object for controller status
- with button lock function
- with flash-controller technology
- programmable with ETS2 as of V1.2a and ETS3

Order no.


1 on page \(T 69\)
\begin{tabular}{|c|c|c|}
\hline \multicolumn{3}{|l|}{Push-button 3gang with room thermostat, display and labelling field} \\
\hline for white and polar white & 75663770 & \\
\hline anthracite & 75663775 & 1 \\
\hline aluminium & 75663774 & \\
\hline stainless steel & 75663773 & 1 \\
\hline Operating temperatur & - + \(45{ }^{\circ} \mathrm{C}\) & \\
\hline
\end{tabular}

\section*{For bus coupling unit flush-mounted order no. 75040001}

■ only for frame with large cut-out
■ for installation in 1 gang wall boxes
\(\square\) with anti-dismantling protection
■ with white operation LED and 6 red status LEDs
■ LC display with symbol display
- display of operating mode, controller lockout, room/ outside temperature, time (clock required)
- with 2 additional display buttons
- end customer display scope parameterisable
\(\square\) for switch, push-button, dimmer, shutter and room thermostat functions
■ value transmitter for dimming, position, brightness and temperature values 1 and 2 byte
■ extension unit for light scene push-button
- cyclic transmission can also be started via switching object
■ single and two push-button operation parameterisable
■ one push-button operation for switching, pushing, shutters and dimming
- area dimming

■ shutter operation concept short-long-short and long-short parameterisable
- rockers or push-button lockable via object
- alarm telegram after disconnection from bus coupling unit 1 bit or 1 byte
■ with room temperature timer
- for individual single room control
- controller operating modes: comfort, standby, night and frost/heat protection mode
■ for heating and/or cooling mode with/without auxiliary step
- control parameter for heating / cooling unit pre-set
\(■\) for continuous (PI) or switched (2-point) control of max. 2 control circuits
\(\square\) temperature measurement via internal and/or external sensor with mean value formation
- presence button parameterisable to extend comfort
- separate window contact object

■ indicator objects for heating and cooling
- with valve protection function

■ object for controller status
- with button lock function
- with flash-controller technology
- programmable with ETS2 as of V1.2a and ETS3

Order no.
\begin{tabular}{l} 
Push-button 5gang with room thermostat, \\
display and labelling field
\end{tabular}
\begin{tabular}{lll} 
for white and polar white & \(\mathbf{7 5 6 6 5 7 7 0}\) & 1 \\
anthracite & \(\mathbf{7 5 6 6 5 7 7 5}\) & 1 \\
aluminium & \(\mathbf{7 5 6 6 5 7 7 4}\) & 1 \\
stainless steel & \(\mathbf{7 5 6 6 5 7 7 3}\) & 1
\end{tabular}\(l\)

Operating temperature \(-5-+45^{\circ} \mathrm{C}\); Labelling field length (W x H) 66,8 x 15,7 mm

\section*{For bus coupling unit flush-mounted order} no. 75040001

■ only for frame with large cut-out
- for installation in 1 gang wall boxes
\(\square\) with anti-dismantling protection
\(■\) with white operation LED and 10 red status LEDs
■ LC display with symbol display
\(■\) display of operating mode, controller lockout, room/ outside temperature, time (clock required)
\(\square\) with 2 additional display buttons
■ end customer display scope parameterisable
■ for switch, push-button, dimmer, shutter and room thermostat functions
- value transmitter for dimming, position, brightness and temperature values 1 and 2 byte
- extension unit for light scene push-button
- cyclic transmission can also be started via switching object
■ single and two push-button operation parameterisable
\(■\) one push-button operation for switching, pushing, shutters and dimming
\(\square\) area dimming
- shutter operation concept short-long-short and long-short parameterisable
\(\square\) rockers or push-button lockable via object
- alarm telegram after disconnection from bus coupling unit 1 bit or 1 byte
- with room temperature timer
- for individual single room contro

■ controller operating modes: comfort, standby, night and frost/heat protection mode
\(\square\) for heating and/or cooling mode with/without auxiliary step
■ control parameter for heating / cooling unit pre-set
\(\square\) for continuous (PI) or switched (2-point) control of max. 2 control circuits
- temperature measurement via internal and/or external sensor with mean value formation
\(■\) presence button parameterisable to extend comfort
- separate window contact object
\(\square\) indicator objects for heating and cooling
- with valve protection function
- object for controller status
- with button lock function
\(\square\) with flash-controller technology
- programmable with ETS2 as of V1.2a and ETS3

Order no
Packing
unit
THERMOSTATS
\begin{tabular}{|c|c|c|}
\hline \multicolumn{3}{|l|}{Object room thermostat with button interface and integral bus coupling unit} \\
\hline white, glossy & 75441272 & 1 \\
\hline polar white, glossy & 75441279 & 1 \\
\hline anthracite, matt & 75441275 & 1 \\
\hline aluminium, matt & 75441274 & 1 \\
\hline stainless steel & 75441273 & \\
\hline
\end{tabular}

Output current per channel max. 0,8 mA;
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
Cable length, inputs/outputs, max. 5 m ;
Sensor cable length max. 50 m
Binary input 4 parameter defineable for remote sensor order no. 0161
\(\square\) for single room control
■ with anti-dismantling protection
■ operating modes: comfort, standby, night lowering, frost/heat protected, dewpoint
■ for continuous (PI) or switched (2-point) control
\(\square\) for heating and/or cooling mode
- heating or cooling possible in 2 stages
- valve protection can be defined
- conduct can be defined for bus voltage return

■ with programming button and red programming LED
■ with 4 independent binary inputs for potential-free contacts e.g. window magnetic contact
\(\square 4\) binary inputs or 2-3 binary inputs and 1-2 outputs parameterisable
\(\square\) bus connection via connecting terminal
■ without spreader claws
■ binary inputs / outputs with screw terminals

Order no.


Room thermostat with button interface and integral bus coupling unit
\begin{tabular}{lll} 
white, glossy & \(\mathbf{7 5 4 4} \mathbf{1 1 7 2}\) & 1 \\
polar white, glossy & \(\mathbf{7 5 4 4} \mathbf{1 1 7 9}\) & 1 \\
anthracite, matt & \(\mathbf{7 5 4 4 1 1 7 5}\) & 1 \\
aluminium, matt & \(\mathbf{7 5 4 4} \mathbf{1 1 7 4}\) & 1 \\
stainless steel, & \(\mathbf{7 5 4 4} \mathbf{1 1 7 3}\) & 1
\end{tabular} lacquered

Set value control by setting knob +/- 0-10 K;
Output current per channel max. 0,8 mA;
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
Cable length, inputs/outputs, max. 5 m ; Sensor cable length max. 50 m

Binary input 4 parameter defineable for remote sensor order no. 0161
- for individual single room control
- with anti-dismantling protection
- operating modes:comfort, standby, night lowering, frost/heat protection, dewpoint displayed with LED
\(\square\) status-LED red is for heating, blue is for cooling and yellow is for activation
- with presence button for switching between comfort and standby mode
- presence button and setting knob can be programmed to have no functions
- for continuous (PI) or switched (2-point) control
- for heating and/or cooling mode
- heating or cooling possible in 2 stages
- valve protection can be defined
- conduct can be defined for bus voltage return
- with programming button and red programming LED
- with 4 independent binary inputs for potential-free contacts e.g. window magnetic contact
- 4 binary inputs or 2-3 binary inputs and 1-2 outputs parameterisable
- bus connection via connecting terminal
- without spreader claws

■ binary inputs / outputs with screw terminals


Order no.
Order no.

\begin{tabular}{|c|c|c|}
\hline white, glossy & 75261572 & 1 \\
\hline polar white, glossy & 75261579 & 1 \\
\hline anthracite, matt & 75261575 & 1 \\
\hline aluminium, matt & 75261574 & 1 \\
\hline stainless steel, & 75261573 & 1 \\
\hline
\end{tabular} lacquered

Nominal mounting height \(1,1 \mathrm{~m}\);
Range frontal approx. 10 m ;
Range lateral each approx. 6 m;
Detection field semi-oval shaped approx. \(10 \times 12 \mathrm{~m}\);
Detection angle \(180^{\circ}\);
Detection levels 2;
Switching segments 72;
Response sensitivity programmable
approx. 20-100 \% ;
Delay time \(10 \mathrm{sec} . ;\)
Additional delay time programmable
\(130 \mathrm{msec} .-306\) hrs.;
Potentiometer for additional delay time \(+/-50 \%\);
Response brightness programmable 3-100/
unlimited Lux
Response brightness adjustable by potentiometer +/- 50 \%;
Lockout time 8 msec.- 140 min ;
Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\);
Dimensions assembling height \(23,5 \mathrm{~mm}\)
Attention:
Direct sunshine can lead to false alarms when using alarm application. Avoid using detection field equiqment on windows.

Direct sunlight penetration the upward-pointing detection plane results in failure of the movement controller. Only suitable for interiors!

When movement of a person is detected a parameter defined data telegram is sent.
For bus coupling unit flush-mounted order no. 75040001

■ with cover to limit detection angle to \(90^{\circ}\)
■ with potentiometers for fine adjustment of the response brightness, sensitivity and delay time
\(\square\) with red diagnostic LED for brightness-independent walk test function and disassembly message
■ parameter defineable lock function
■ with lighting and message mode
■ operating mode switched with object
\(\square\) functions for lighting operating mode: Switching, Value transmitter and Light scene call
■ also suitable as extension unit
■ cyclic transmission possible
■ alarm telegram after disconnection from bus coupling unit 1 bit

Controller sensor 180
\begin{tabular}{lll} 
white, glossy & \(\mathbf{7 5 2 6 1 2 7 2}\) & 1 \\
polar white, glossy & \(\mathbf{7 5 2 6} \mathbf{1 2} \mathbf{7 9}\) & 1 \\
anthracite, matt & \(\mathbf{7 5 2 6 1 2 7 5}\) & 1 \\
aluminium, matt & \(\mathbf{7 5 2 6 1 2 7 4}\) & 1 \\
stainless steel, & \(\mathbf{7 5 2 6 1 2 7 3}\) & 1
\end{tabular} lacquered

Nominal mounting height 2,2 m;
Range frontal approx. 12 m ;
Range lateral each approx. 6 m ; At assembly height 1,1 m;
Range frontal approx. 6 m ;
Range lateral each approx. 3 m;
Detection field semi-oval shaped approx. \(12 \times 12 \mathrm{~m}\); Detection angle \(180^{\circ}\);
Detection levels 2;
Switching segments 72 ;
Response sensitivity programmable
approx. 20-100 \% ;
Delay time \(10 \mathrm{sec} . ;\)
Additional delay time programmable
130 msec.- 152 hrs.;
Response brightness programmable 1-1000/ unlimited Lux
Lockout time 8 msec.- 140 min .;
Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\);
Dimensions assembling height \(23,5 \mathrm{~mm}\)
Application as for order no. 752611 ..

When movement of a person is detected a parameter defined data telegram is sent.
For bus coupling unit flush-mounted order no. 75040001

■ with cover to limit detection angle to \(90^{\circ}\)
- with potentiometer for fine adjustment of the response sensitivity
■ parameter defineable lock function
■ also suitable as extension unit
- cyclic transmission possible

Order no.

Controller sensor 180 comfort with slide switch for off/automatic/on
\begin{tabular}{lll} 
white, glossy & \(\mathbf{7 5 2 6 1 6 7 2}\) & 1 \\
polar white, glossy & \(\mathbf{7 5 2 6 1 6 7 9}\) & 1 \\
anthracite, matt & \(\mathbf{7 5 2 6 1 6 7 5}\) & 1 \\
aluminium, matt & \(\mathbf{7 5 2 6 1 6 7 4}\) & 1 \\
stainless steel, & \(\mathbf{7 5 2 6 1 6 7 3}\) & 1
\end{tabular} lacquered

Nominal mounting height 2,2 m;
Range frontal approx. 12 m ;
Range lateral each approx. 6 m;
At assembly height \(1,1 \mathrm{~m}\);
Range frontal approx. 6 m ;
Range lateral each approx. 3 m;
Detection field semi-oval shaped approx. \(12 \times 12 \mathrm{~m}\);
Detection angle \(180^{\circ}\);
Detection levels 2;
Switching segments 72;
Response sensitivity programmable
approx. 20-100 \% ;
Delay time \(10 \mathrm{sec} . ;\)
Additional delay time programmable
130 msec.- 306 hrs.;
Potentiometer for additional delay time +/-50\%; Response brightness programmable 3-100/ unlimited Lux;
Response brightness adjustable by potentiometer +/- 50 \%;
Lockout time 8 msec.- 140 min.;
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
Dimensions assembling height \(23,5 \mathrm{~mm}\)
Application as for order no. 752615 ..

\section*{Attention:}

Direct sunlight can lead to false alarms when using alarm application. Alignment of detection field towards window must be avoided.

When movement of a person is detected a parameter defined data telegram is sent.
For bus coupling unit flush-mounted order no. 75040001

■ with cover to limit detection angle to \(90^{\circ}\)
- with potentiometers for fine adjustment of the response brightness, sensitivity and delay time
\(\square\) with red diagnostic LED for brightness-independent walk test function and disassembly message
■ parameter defineable lock function
\(\square\) with lighting and message mode
■ operating mode switched with object
- functions for lighting operating mode: Switching,

Value transmitter and Light scene call
- also suitable as extension unit
- cyclic transmission possible
- alarm telegram after disconnection from bus coupling unit 1 bit

Order no.
Packing
unit

\section*{INFO DISPLAY}

Info display
\begin{tabular}{lll} 
white, glossy & \(\mathbf{7 5 8 6 0 0 7 2}\) & 1 \\
polar white, glossy & \(\mathbf{7 5 8 6 0 0 7 9}\) & 1 \\
anthracite, matt & \(\mathbf{7 5 8 6 0 0 7 5}\) & 1 \\
aluminium, matt & \(\mathbf{7 5 8 6 0 0 7 4}\) & 1 \\
stainless steel & \(\mathbf{7 5 8 6 0 0 7 3}\) & 1
\end{tabular}

Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\)
Commissioning possible only with ETS3 and ETS2 V1.2 SR A.
For bus coupling unit flush-mounted order
no. 75040001
- with anti-dismantling protection
- LC display with illumination
- programmable to 1 , 2 or 4 lines
- 16 characters per line on max. 12 pages
\(\square\) to display and initiate actions
- for max. 48 signalling groups

■ with piezo signal generator
■ visual/acoustic alarm message, with reset
■ German/English
BLANK PLATES


\section*{Blank plate}
\begin{tabular}{lll} 
white, glossy & \(\mathbf{7 5 9 4 0 2 7 2}\) & 1 \\
polar white, glossy & \(\mathbf{7 5 9 4 0 2 7 9}\) & 1 \\
anthracite, matt & \(\mathbf{7 5 9 4 0 2 7 5}\) & 1 \\
aluminium, matt & \(\mathbf{7 5 9 4 0 2 7 4}\) & 1 \\
stainless steel & \(\mathbf{7 5 9 4 0 2 7 3}\) & 1
\end{tabular}

For bus coupling unit order no. 750400 01, 75040003

■ for bus coupling units flush-mounted

Order no.
Order no
Packing
unit
\begin{tabular}{|c|c|c|c|}
\hline & \multicolumn{3}{|l|}{Push-button 1gang with labelling field} \\
\hline & white, glossy & 75161042 & 1 \\
\hline * & polar white, glossy & 75161049 & 1 \\
\hline \(\pm\) & light bronze, lacquered & 75161044 & 1 \\
\hline & stainless steel, & 75161043 & 1 \\
\hline
\end{tabular}
lacquered
Operating temperature \(-5-+45^{\circ} \mathrm{C}\)

For bus coupling unit flush-mounted order no. 75040001

■ with anti-dismantling protection
\(\square\) with green operation LED and red status LED
- for switch, push-button, dimmer and shutter functions
- dimming / position value transmitter 1 byte

■ extension unit for light scene push-button
\begin{tabular}{lll} 
Push-button 2gang & & \\
white, glossy & \(\mathbf{7 5 1 6 2 1 4 2}\) & 1 \\
polar white, glossy & \(\mathbf{7 5 1 6 2 1 4 9}\) & 1 \\
light bronze, lacquered & \(\mathbf{7 5 1 6 ~ 2 1 4 4}\) & 1 \\
stainless steel, & \(\mathbf{7 5 1 6 2 1 4 3}\) & 1
\end{tabular}
lacquered
Operating temperature \(-5-+45^{\circ} \mathrm{C}\)
Application as 751620 ..
For bus coupling unit flush-mounted order
no. 75040001
\(\square\) with anti-dismantling protection
- for switch, push-button, dimmer and shutter functions
■ dimming / position value transmitter 1 byte
■ extension unit for light scene push-button
\begin{tabular}{lll} 
Push-button 4gang & & \\
white, glossy & \(\mathbf{7 5 1 6 4 1 4 2}\) & 1 \\
polar white, glossy & \(\mathbf{7 5 1 6 4 1 4 9}\) & 1 \\
light bronze, lacquered & \(\mathbf{7 5 1 6 4 1 4 4}\) & 1 \\
stainless steel, & \(\mathbf{7 5 1 6 4 1 4 3}\) & 1
\end{tabular}

\begin{tabular}{lcc} 
Push-button 4gang with labelling field \\
white, glossy & \(\mathbf{7 5 1 6 4 0 4 2}\) & 1 \\
polar white, glossy & \(\mathbf{7 5 1 6 4 0 4 9}\) & 1 \\
light bronze, lacquered & \(\mathbf{7 5 1 6 4 0 4 4}\) & 1 \\
stainless steel, & \(\mathbf{7 5 1 6 4 0 4 3}\) & 1
\end{tabular}
lacquered
Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\)

For bus coupling unit flush-mounted order no. 75040001

■ with anti-dismantling protection
\(\square\) with green operation LED and 4 red status LEDs
- for switch, dimmer and shutter functions
- dimming / position value transmitter 1 byte

■ extension unit for light scene push-button

Order no.
Order no.

\section*{Push-buttons comfort with labelling field}
\begin{tabular}{|c|c|c|c|}
\hline & \multicolumn{3}{|l|}{Push-button 1gang comfort with labelling field} \\
\hline & white, glossy & 75161642 & 1 \\
\hline - & polar white, glossy & 75161649 & 1 \\
\hline & light bronze, lacquered & 75161644 & 1 \\
\hline & stainless steel, & 75161643 & 1 \\
\hline
\end{tabular} lacquered

Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\)

For bus coupling unit flush-mounted order no. 75040001

■ with anti-dismantling protection
- with green operation LED and 2 red status LEDs
\(\square\) for switch, push-button, dimmer and shutter functions
- value transmitter for dimming, position, brightness and temperature values 1 and 2 byte
\(\square\) extension unit for light scene push-button
- cyclic transmission can also be started via switching object
- alarm telegram after disconnection from bus coupling unit 1 bit or 1 byte
\(\square\) single and two push-button operation parameterisable
■ one push-button operation for switching, pushing, shutters and dimming
\(\square\) activation of second user level via object


Push-button 2gang comfort with labelling field
white, glossy 75162642
polar white, glossy 75162649
light bronze, lacquered 75162644
stainless steel
75162643
lacquered
Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\)
For bus coupling unit flush-mounted order no. 75040001
- with anti-dismantling protection
- with green operation LED and 4 red status LEDs
- for switch, push-button, dimmer and shutter functions
- value transmitter for dimming, position, brightness and temperature values 1 and 2 byte
\(\square\) extension unit for light scene push-button
- cyclic transmission can also be started via switching object
- alarm telegram after disconnection from bus coupling unit 1 bit or 1 byte
- single and two push-button operation parameterisable
■ one push-button operation for switching, pushing, shutters and dimming
\(\square\) activation of second user level via object
\begin{tabular}{lcc}
\(l\) \\
Push-button & 4gang comfort with labelling field \\
white, glossy & \(\mathbf{7 5 1 6 4 6 4 2}\) & 1 \\
polar white, glossy & \(\mathbf{7 5 1 6 4 6 4 9}\) & 1 \\
light bronze, lacquered & \(\mathbf{7 5 1 6 4 6 4 4}\) & 1 \\
stainless steel, & \(\mathbf{7 5 1 6 4 6 4 3}\) & 1
\end{tabular} lacquered

Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\)
For bus coupling unit flush-mounted order no. 75040001
- with anti-dismantling protection
\(\square\) with green operation LED and 8 red status LEDs
■ for switch, push-button, dimmer and shutter functions
■ value transmitter for dimming, position, brightness and temperature values 1 and 2 byte
- extension unit for light scene push-button

■ cyclic transmission can also be started via switching object
- lockable via 3-button actuation
- alarm telegram after disconnection from bus coupling unit 1 bit or 1 byte
- single and two push-button operation parameterisable
■ one push-button operation for switching, pushing, shutters and dimming
\(\square\) second operating level via object or 3-button handle

\section*{Light scene push-buttons}


Light scene push-button comfort with labelling field
\begin{tabular}{ll} 
white, glossy & \(\mathbf{7 5 1 6 8 7 4 2}\) \\
polar white, glossy & \(\mathbf{7 5 1 6 8 7 4 9}\) \\
\hline 75168743
\end{tabular}
stainless steel, 751687431 lacquered
light bronze, lacquered 75168744
1
Light scenes max. 8;
Load groups 8 (are increased in case of cascading); Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\)

The settings of the individual load groups (light scenes) can be varied by way of the second operating level.
For bus coupling unit flush-mounted order
no. 75040001
- with anti-dismantling protection
\(\square\) with green operation LED and 8 red status LEDs
■ retrieval, adjustment and storage of 8 light scenes
- dimming / position value transmitter 1 byte

■ light scene push-buttons are cascadable
■ second operating level for setting load groups via 3-button actuation
- lockable via object

Order no.
Packing
Order no.
Packing
unit


Order no.
Packing
unit
unit
\begin{tabular}{|c|c|}
\hline CONTROLLERS & \\
\hline & Controller sensor 180 \\
\hline & white, glossy 75261142 \\
\hline & polar white, glossy 75261149 \\
\hline & light bronze, lacquered 75261144 \\
\hline & \begin{tabular}{ll} 
stainless steel, & 75261143 \\
lacquered
\end{tabular} \\
\hline & Nominal mounting height \(1,1 \mathrm{~m}\) \\
\hline & Range frontal approx. 10 m ; \\
\hline & Range lateral each approx. 6 m ; \\
\hline & Detection field semi-oval shaped approx. \(10 \times 12 \mathrm{~m}\); Detection angle \(180^{\circ}\); \\
\hline & Detection levels 2; \\
\hline & Switching segments 72; \\
\hline & Response sensitivity programmable approx. 20-100\% ; \\
\hline & Delay time 10 sec.; \\
\hline & Additional delay time programmable 130-152 msec.; \\
\hline & Response brightness programmable 1-1000/ unlimited Lux; \\
\hline & Lockout time \(8 \mathrm{msec} .-140 \mathrm{~min} . ;\) \\
\hline & Operating temperature -5-+45 \({ }^{\circ} \mathrm{C}\); \\
\hline & Dimensions assembling height \(23,5 \mathrm{~mm}\) \\
\hline & Direct sunlight penetration the upward-pointing detection plane results in failure of the movement controller. Only suitable for interiors! \\
\hline & When movement of a person is detected a parameter defined data telegram is sent. \\
\hline & For bus coupling unit flush-mounted order no. 75040001 \\
\hline & \\
\hline & with potentiometer for fine adjustment of the response sensitivity \\
\hline & - parameter defineable lock function \\
\hline & \multirow[t]{2}{*}{- also suitable as extension unit
cyclic transmission possible} \\
\hline & \\
\hline
\end{tabular}

When movement of a person is detected a parameter
For bus coupling unit flush-mounted order no. 75040001
- with cover to limit detection angle to \(90^{\circ}\)
with potentiometer for fine adjustment of the
- parameter defineable lock function
- cyclic transmission possible


\section*{Attention:}

Direct sunshine can lead to false alarms when using alarm application. Avoid using detection field equiqment on windows.

Direct sunlight penetration the upward-pointing detection plane results in failure of the movement controller. Only suitable for interiors!

When movement of a person is detected a parameter defined data telegram is sent.
For bus coupling unit flush-mounted order no. 75040001
- with cover to limit detection angle to \(90^{\circ}\)
- with potentiometers for fine adjustment of the response brightness, sensitivity and delay time
- with red diagnostic LED for brightness-independent walk test function and disassembly message
- parameter defineable lock function
- with lighting and message mode
- operating mode switched with object
- functions for lighting operating mode: Switching, Value transmitter and Light scene call
- also suitable as extension unit
- cyclic transmission possible
- alarm telegram after disconnection from bus coupling unit 1 bit

Order no.
Order no.
Packing

\begin{tabular}{|c|c|c|}
\hline \multicolumn{3}{|l|}{Controller sensor 180 comfort with slide switch for off/automatic/on} \\
\hline white, glossy & 75261642 & 1 \\
\hline polar white, glossy & 75261649 & 1 \\
\hline light bronze, lacquered & 75261644 & 1 \\
\hline stainless steel, & 75261643 & \\
\hline
\end{tabular} lacquered

Nominal mounting height 2,2 m;
Range frontal approx. 12 m ;
Range lateral each approx. 6 m ;
At assembly height \(1,1 \mathrm{~m}\);
Range frontal approx. 6 m ;
Range lateral each approx. 3 m ;
Detection field semi-oval shaped approx. \(12 \times 12 \mathrm{~m}\);
Detection angle \(180^{\circ}\);
Detection levels 2;
Switching segments 72;
Response sensitivity programmable
approx. 20-100\% ;
Delay time 10 sec.;
Additional delay time programmable
130 msec.- 306 hrs.;
Potentiometer for additional delay time \(+/-50 \%\);
Response brightness programmable 3-100/ unlimited Lux;
Response brightness adjustable by potentiometer +/- 50 \%;
Lockout time 8 msec.- 140 min .;
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
Dimensions assembling height \(23,5 \mathrm{~mm}\)
Application as for order no. 752615 ..
Attention:
Direct sunlight can lead to false alarms when using alarm application. Alignment of detection field towards window must be avoided.

When movement of a person is detected a parameter defined data telegram is sent.
For bus coupling unit flush-mounted order no. 75040001
- with cover to limit detection angle to \(90^{\circ}\)
- with potentiometers for fine adjustment of the response brightness, sensitivity and delay time
- with red diagnostic LED for brightness-independent walk test function and disassembly message
- parameter defineable lock function
- with lighting and message mode
- operating mode switched with object
- functions for lighting operating mode: Switching, Value transmitter and Light scene call
- also suitable as extension unit
- cyclic transmission possible
- alarm telegram after disconnection from bus coupling unit 1 bit

\section*{Info display}

white, glossy polar white, glossy
\(75860042 \quad 1\)7586004975860044

758600431
stainless steel, \(\quad \mathbf{7 5 8 6 0 0 4 3}\)
lacquered
Operating temperature \(-5-+45^{\circ} \mathrm{C}\)
Commissioning possible only with ETS3 and ETS2 V1.2 SR A.
For bus coupling unit flush-mounted order no. 75040001
- with anti-dismantling protection
- LC display with illumination
- programmable to 1 , 2 or 4 lines
- 16 characters per line on max. 12 pages
\(\square\) to display and initiate actions
- for max. 48 signalling groups

■ with piezo signal generator
- visual/acoustic alarm message, with reset

■ German/English
BLANK PLATES

\section*{Blank plate}
\begin{tabular}{lll} 
white, glossy & \(\mathbf{7 5 9 4 0 2 4 2}\) & 1 \\
polar white, glossy & \(\mathbf{7 5 9 4 0 2 4 9}\) & 1 \\
light bronze, lacquered & \(\mathbf{7 5 9 4 0 2 4 4}\) & 1 \\
stainless steel & \(\mathbf{7 5 9 4 0 2 4 3}\) & 1
\end{tabular}

For bus coupling unit order no. 750400 01, 75040003

■ for bus coupling units flush-mounted

Order no.
Packing
Order no.
Packing
unit
PUSH-BUTTONS


Push-button 1gang standard
\begin{tabular}{lll} 
polar white, matt & \(\mathbf{7 5 1 6} \mathbf{1 0 9 9}\) & 1 \\
stainless steel & \(\mathbf{7 5 1 6 1 0 9 3}\) & 1 \\
glass, polar white & \(\mathbf{7 5 1 6} \mathbf{1 0 9 1}\) & 1
\end{tabular}

Operating temperature \(-5-+45^{\circ} \mathrm{C}\)
I) on page T 70

For bus coupling unit flush-mounted order no. 75040001
Labelling field see accessories order no. 75900080

■ with anti-dismantling protection
■ with blue operation LED and 2 white status LED (labelling field illumination)
- for switch, push-button, dimmer and shutter functions
■ dimming / position value transmitter 1 byte
■ extension unit for light scene push-button


Push-button 2gang standard
\begin{tabular}{ll} 
polar white, matt & \(\mathbf{7 5 1 6} \mathbf{2 0 9 9}\) \\
stainless steel & \(\mathbf{7 5 1 6 2 0 9 3}\) \\
glass, polar white & \(\mathbf{7 5 1 6} \mathbf{2 0} 91\) \\
Operating temperature & \(-5-+45^{\circ} \mathrm{C}\)
\end{tabular}

\section*{1 on page T70}

For bus coupling unit flush-mounted order
no. 75040001
Labelling field see accessories order no. 75900080
- with anti-dismantling protection
- with blue operation LED and 4 white status LED (labelling field illumination)
\(\square\) for switch, push-button, dimmer and shutter functions
■ dimming / position value transmitter 1 byte
■ extension unit for light scene push-button

\begin{tabular}{|c|c|c|}
\hline \multicolumn{3}{|l|}{Push-button 3gang standard} \\
\hline polar white, matt & 75163099 & 1 \\
\hline stainless steel & 75163093 & 1 \\
\hline glass, polar white & 75163091 & 1 \\
\hline \multicolumn{3}{|l|}{Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\)} \\
\hline
\end{tabular}

I on page T70
For bus coupling unit flush-mounted order
no. 75040001
Labelling field see accessories order no. 75900080
- with anti-dismantling protection

■ with blue operation LED and 6 white status LED (labelling field illumination)
\(\square\) for switch, push-button, dimmer and shutter functions
- dimming / position value transmitter 1 byte

■ extension unit for light scene push-button
\begin{tabular}{|c|c|c|}
\hline \multicolumn{3}{|l|}{Push-button 4gang standard} \\
\hline polar white, matt & 75164099 & 1 \\
\hline stainless steel & 75164093 & \\
\hline glass, polar white & 75164091 & 1 \\
\hline \multicolumn{3}{|l|}{Operating temperature \(-5-+45^{\circ} \mathrm{C}\)} \\
\hline \multicolumn{3}{|l|}{\begin{tabular}{l}
For bus coupling unit flush-mounted order no. 75040001 \\
Labelling field see accessories order no. 75900081
\end{tabular}} \\
\hline \multicolumn{3}{|l|}{\begin{tabular}{l}
for installation in 1gang wall boxes \\
with anti-dismantling protection
\end{tabular}} \\
\hline \multicolumn{3}{|l|}{with blue operation LED and 8 white status LED (labelling field illumination)} \\
\hline \multicolumn{2}{|l|}{for switch, push-button, dimmer and shutter functions} & \\
\hline
\end{tabular}

\section*{Push-buttons comfort}


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For bus coupling unit flush-mounted order
no. 75040001
Labelling field see accessories order no. 75900080

■ with anti-dismantling protection
■ with blue operation LED and 2 white status LED (labelling field illumination)
■ for switch, push-button, dimmer and shutter functions
■ value transmitter for dimming, position, brightness and temperature values 1 and 2 byte
\(\square\) extension unit for light scene push-button
- cyclic transmission can also be started via switching object
- alarm telegram after disconnection from bus coupling unit 1 bit or 1 byte
■ single and two push-button operation parameterisable
■ one push-button operation for switching, pushing, shutters and dimming
- activation of second user level via object

Order no.
Packing
unit
Push-button 2gang comfort
\begin{tabular}{lll} 
polar white, matt & \(\mathbf{7 5 1 6 2 5 9 9}\) & 1 \\
stainless steel & \(\mathbf{7 5 1 6} \mathbf{2 5 9 3}\) & 1 \\
glass, polar white & \(\mathbf{7 5 1 6 2 5 9 1}\) & 1
\end{tabular}
glass, polar white \(\quad 75162591\)
Operating temperature \(-5-+45^{\circ} \mathrm{C}\)
I on page T70

\section*{For bus coupling unit flush-mounted order} no. 75040001
Labelling field see accessories order no. 75900080
\(\square\) with anti-dismantling protection
- with blue operation LED and 4 white status LED (labelling field illumination)
- for switch, push-button, dimmer and shutter functions
- value transmitter for dimming, position, brightness and temperature values 1 and 2 byte
■ extension unit for light scene push-button
- cyclic transmission can also be started via switching object
- alarm telegram after disconnection from bus coupling unit 1 bit or 1 byte
- single and two push-button operation parameterisable
■ one push-button operation for switching, pushing, shutters and dimming
- activation of second user level via object


\section*{Push-button 3gang comfort}
\begin{tabular}{lll} 
polar white, matt & \(\mathbf{7 5 1 6 3 5 9 9}\) & 1 \\
stainless steel & \(\mathbf{7 5 1 6 3 5 9 3}\) & 1 \\
glass, polar white & \(\mathbf{7 5 1 6 3 5 9 1}\) & 1
\end{tabular}

Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\)
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\section*{For bus coupling unit flush-mounted order}
no. 75040001
Labelling field see accessories order no. 75900080
- with anti-dismantling protection
- with blue operation LED and 6 white status LED (labelling field illumination)
- for switch, push-button, dimmer and shutter functions
■ value transmitter for dimming, position, brightness and temperature values 1 and 2 byte
\(\square\) extension unit for light scene push-button
■ cyclic transmission can also be started via switching object
- alarm telegram after disconnection from bus coupling unit 1 bit or 1 byte
- single and two push-button operation parameterisable
■ one push-button operation for switching, pushing, shutters and dimming
- activation of second user level via object

Order no.


I on page T70

Push-button 4gang comfort
\begin{tabular}{lll} 
polar white, matt & \(\mathbf{7 5 1 6 4 5 9 9}\) & 1 \\
stainless steel & \(\mathbf{7 5 1 6 4 5 9 3}\) & 1 \\
glass, polar white & \(\mathbf{7 5 1 6 4 5 9 1}\) & 1
\end{tabular}

Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\)

\section*{For bus coupling unit flush-mounted order} no. 75040001
Labelling field see accessories order no. 75900081

■ for installation in 1gang wall boxes
- with anti-dismantling protection
- with blue operation LED and 8 white status LED (labelling field illumination)
\(\square\) for switch, push-button, dimmer and shutter functions
- value transmitter for dimming, position, brightness and temperature values 1 and 2 byte
- extension unit for light scene push-button

■ cyclic transmission can also be started via switching object
■ lockable via 3-button actuation
■ alarm telegram after disconnection from bus coupling unit 1 bit or 1 byte
- single and two push-button operation parameterisable
■ one push-button operation for switching, pushing, shutters and dimming
■ second operating level via object or 3-button handle

Light scene push-buttons


I on page T70

Light scene push-button 8gang comfort
\begin{tabular}{lll} 
polar white, matt & \(\mathbf{7 5 1 6 8 6 9 9}\) & 1 \\
stainless steel & \(\mathbf{7 5 1 6 8 6 9 3}\) & 1 \\
glass, polar white & \(\mathbf{7 5 1 6 8 6 9 1}\) & 1
\end{tabular}

Light scenes max. 8;
Load groups 8 (are increased in case of cascading); Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\)

\section*{For bus coupling unit flush-mounted order}
no. 75040001
Labelling field see accessories order no. 75900081
- for installation in 1gang wall boxes
\(\square\) with anti-dismantling protection
- with blue operation LED and 8 white status LED (labelling field illumination)
■ retrieval, adjustment and storage of 8 light scenes
- dimming / position value transmitter 1 byte

■ light scene push-buttons are cascadable
■ second operating level for setting load groups via 3-button actuation

Order no.
Packing
unit


Only for bus coupling unit plus order no. 75040003
Labelling field see accessories order no. 75900080

■ for installation in 1gang wall boxes
\(\square\) with anti-dismantling protection
\(\square\) with blue operation LED and 6 white status LED (labelling field illumination)
- LC display with symbols and illumination, switchable via object
■ display of operating mode, controller lockout, room/ outside temperature, time (clock required)
- text display (ASCII-format)
- with 2 additional display buttons
\(\square\) button help function can be activated
■ end customer display scope parameterisable
\(\square\) for switch, push-button, dimmer, shutter and room thermostat functions
\(\square\) value transmitter for dimming, position, brightness and temperature values 1 and 2 byte
■ extension unit for light scene push-button
■ cyclic transmission can also be started via switching object
- single and two push-button operation parameterisable
■ one push-button operation for switching, pushing, shutters and dimming
\(\square\) area dimming
■ shutter operation concept short-long-short and long-short parameterisable
■ rockers or push-button lockable via object
- alarm telegram after disconnection from bus coupling unit 1 bit, 1 or 2 byte
- with room temperature timer and 2-week timer functions
■ for individual single room control
- controller operating modes: comfort, standby, night and frost/heat protection mode
- for heating and/or cooling mode with/without auxiliary step
\(\square\) control parameter for heating / cooling unit pre-set
\(\square\) for continuous (PI) or switched (2-point) control of max. 2 control circuits
■ temperature measurement via internal and/or external sensor with mean value formation
\(■\) presence button parameterisable to extend comfort
■ separate window contact object
\(\square\) indicator objects for heating and cooling
- with valve protection function

■ object for controller status
- with button lock function

■ with flash-controller technology
- programmable with ETS2 as of V1.2a and ETS3

Order no.
Packing
unit


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Push-button 4gang with room thermostat and display
polar white, matt \(75664599 \quad 1\)
stainless steel 75664593 75664591
Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\)

Only for bus coupling unit plus order no. 75040003 Labelling field see accessories order no. 75900081

■ for installation in 1gang wall boxes
\(\square\) with anti-dismantling protection
■ with blue operation LED and 8 white status LED (labelling field illumination)
- LC display with symbols and illumination, switchable via object
■ display of operating mode, controller lockout, room/ outside temperature, time (clock required)
- text display (ASCII-format)

■ with 2 additional display buttons
■ button help function can be activated
■ end customer display scope parameterisable
- for switch, push-button, dimmer, shutter and room thermostat functions
■ value transmitter for dimming, position, brightness and temperature values 1 and 2 byte
■ extension unit for light scene push-button
- cyclic transmission can also be started via switching object
■ single and two push-button operation parameterisable
■ one push-button operation for switching, pushing, shutters and dimming
- area dimming

■ shutter operation concept short-long-short and long-short parameterisable
■ rockers or push-button lockable via object
- alarm telegram after disconnection from bus coupling unit 1 bit, 1 or 2 byte
- with room temperature timer and 2-week timer functions
■ for individual single room control
■ controller operating modes: comfort, standby, night and frost/heat protection mode
■ for heating and/or cooling mode with/without auxiliary step
- control parameter for heating / cooling unit pre-set
\(\square\) for continuous (PI) or switched (2-point) control of max. 2 control circuits
- temperature measurement via internal and/or external sensor with mean value formation
\(\square\) presence button parameterisable to extend comfort
- separate window contact object

■ indicator objects for heating and cooling
- with valve protection function

■ object for controller status
\(■\) with button lock function
■ with flash-controller technology
- programmable with ETS2 as of V1.2a and ETS3

Order no.
\begin{tabular}{|c|c|}
\hline \multicolumn{2}{|l|}{Push-button 5gang with room thermostat and display} \\
\hline polar white, matt & 75665599 \\
\hline stainless steel & 75665593 \\
\hline glass, polar white & 75665591 \\
\hline Operating temp & - +45 \({ }^{\circ} \mathrm{C}\) \\
\hline
\end{tabular}

Only for bus coupling unit plus order no. 75040003 Labelling field see accessories order no. 75900082

■ for installation in 1gang wall boxes
\(\square\) with anti-dismantling protection
- with blue operation LED and 10 white status LED (labelling field illumination)
- LC display with symbols and illumination, switchable via object
- display of operating mode, controller lockout, room/ outside temperature, time (clock required)
- text display (ASCII-format)

■ with 2 additional display buttons
\(\square\) button help function can be activated
\(\square\) end customer display scope parameterisable
- for switch, push-button, dimmer, shutter and room thermostat functions
- value transmitter for dimming, position, brightness and temperature values 1 and 2 byte
- extension unit for light scene push-button
- cyclic transmission can also be started via switching object
■ single and two push-button operation parameterisable
■ one push-button operation for switching, pushing, shutters and dimming
- area dimming

■ shutter operation concept short-long-short and long-short parameterisable
■ rockers or push-button lockable via object
- alarm telegram after disconnection from bus coupling unit 1 bit, 1 or 2 byte
- with room temperature timer and 2-week timer functions
■ for individual single room control
■ controller operating modes: comfort, standby, night and frost/heat protection mode
\(\square\) for heating and/or cooling mode with/without auxiliary step
■ control parameter for heating / cooling unit pre-set
\(\square\) for continuous (PI) or switched (2-point) control of max. 2 control circuits
- temperature measurement via internal and/or external sensor with mean value formation
- presence button parameterisable to extend comfort
- separate window contact object

■ indicator objects for heating and cooling
■ with valve protection function
■ object for controller status
- with button lock function

■ with flash-controller technology
■ programmable with ETS2 as of V1.2a and ETS3

\section*{IR push-buttons with room thermostat and display}


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IR push-button 3gang with room thermostat and display
\begin{tabular}{lll} 
polar white, matt & \(\mathbf{7 5 6 6 3 6 9 9}\) & 1 \\
stainless steel & \(\mathbf{7 5 6 6 3 6 9 3}\) & 1 \\
glass, polar white & \(\mathbf{7 5 6 6 3 6 9 1}\) & 1
\end{tabular}

Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\)
IR hand-held transmitter order no. 2779 see house electronics.

Only for bus coupling unit plus order no. 75040003 Labelling field see accessories order no. 75900080
- for installation in 1gang wall boxes
- with anti-dismantling protection
- with blue operation LED and 6 white status LED (labelling field illumination)
- LC display with symbols and illumination, switchable via object
- display of operating mode, controller lockout, room/ outside temperature, time (clock required)
■ text display (ASCII-format)
- with 2 additional display buttons
- button help function can be activated

■ end customer display scope parameterisable
\(\square\) for switch, push-button, dimmer, shutter and room thermostat functions
■ IR telegram with RC5 coding parameterisable per push-button
- value transmitter for dimming, position, brightness and temperature values 1 and 2 byte
\(\square\) extension unit for light scene push-button
- cyclic transmission can also be started via switching object
\(\square\) single and two push-button operation parameterisable
■ one push-button operation for switching, pushing, shutters and dimming
\(\square\) area dimming
\(■\) shutter operation concept short-long-short and long-short parameterisable
■ rockers or push-button lockable via object
- alarm telegram after disconnection from bus coupling unit 1 bit, 1 or 2 byte
■ with room temperature timer and 2-week timer functions
■ for individual single room control
■ controller operating modes: comfort, standby, night and frost/heat protection mode
\(\square\) for heating and/or cooling mode with/without auxiliary step
■ control parameter for heating / cooling unit pre-set
\(\square\) for continuous (PI) or switched (2-point) control of max. 2 control circuits
\(\square\) temperature measurement via internal and/or external sensor with mean value formation
- presence button parameterisable to extend comfort

■ separate window contact object
\(\square\) indicator objects for heating and cooling
\(\square\) with valve protection function
■ object for controller status
■ with button lock function
- with flash-controller technology
- programmable with ETS2 as of V1.2a and ETS3

Order no.
Packing
unit
\begin{tabular}{|c|c|c|}
\hline \multicolumn{3}{|l|}{IR push-button 4gang with room thermostat and display} \\
\hline polar white, matt & 75664699 & \\
\hline stainless steel & 75664693 & \\
\hline glass, polar white & 75664691 & 1 \\
\hline Operating tempe & \(-5-+45{ }^{\circ} \mathrm{C}\) & \\
\hline IR hand-held tra electronics. & order no. & \\
\hline
\end{tabular} electronics.

Only for bus coupling unit plus order no. 75040003 Labelling field see accessories order no. 75900081
- for installation in 1gang wall boxes
\(\square\) with anti-dismantling protection
■ with blue operation LED and 8 white status LED (labelling field illumination)
- LC display with symbols and illumination, switchable via object
- display of operating mode, controller lockout, room/ outside temperature, time (clock required)
■ text display (ASCII-format)
- with 2 additional display buttons
\(■\) button help function can be activated
■ end customer display scope parameterisable
\(\square\) for switch, push-button, dimmer, shutter and room thermostat functions
\(\square\) IR telegram with RC5 coding parameterisable per push-button
■ value transmitter for dimming, position, brightness and temperature values 1 and 2 byte
■ extension unit for light scene push-button
- cyclic transmission can also be started via switching object
■ single and two push-button operation parameterisable
■ one push-button operation for switching, pushing, shutters and dimming
- area dimming
- shutter operation concept short-long-short and long-short parameterisable
■ rockers or push-button lockable via object
■ alarm telegram after disconnection from bus coupling unit 1 bit, 1 or 2 byte
■ with room temperature timer and 2-week timer functions
■ for individual single room control
■ controller operating modes: comfort, standby, night and frost/heat protection mode
■ for heating and/or cooling mode with/without auxiliary step
■ control parameter for heating / cooling unit pre-set
■ for continuous (PI) or switched (2-point) control of max. 2 control circuits
■ temperature measurement via internal and/or external sensor with mean value formation
\(\square\) presence button parameterisable to extend comfort
■ separate window contact object
\(\square\) indicator objects for heating and cooling
\(\square\) with valve protection function
■ object for controller status
- with button lock function
- with flash-controller technology

■ programmable with ETS2 as of V1.2a and ETS3

Order no.
Packing
unit


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IR push-button 5gang with room thermostat and display
\begin{tabular}{lll} 
polar white, matt & \(\mathbf{7 5 6 6 5 6 9 9}\) & 1 \\
stainless steel & \(\mathbf{7 5 6 6 5 6 9 3}\) & 1 \\
glass, polar white & \(\mathbf{7 5 6 6 5 6 9 1}\) & 1
\end{tabular}
glass, polar whit
Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\)
IR hand-held transmitter order no. 2779 see house electronics.

Only for bus coupling unit plus order no. 75040003 Labelling field see accessories order no. 75900082
- for installation in 1gang wall boxes
- with anti-dismantling protection

■ with blue operation LED and 10 white status LED (labelling field illumination)
- LC display with symbols and illumination, switchable via object
- display of operating mode, controller lockout, room/ outside temperature, time (clock required)
- text display (ASCII-format)
- with 2 additional display buttons
\(\square\) button help function can be activated
■ end customer display scope parameterisable
\(■\) for switch, push-button, dimmer, shutter and room thermostat functions
- IR telegram with RC5 coding parameterisable per push-button
- value transmitter for dimming, position, brightness and temperature values 1 and 2 byte
■ extension unit for light scene push-button
■ cyclic transmission can also be started via switching object
■ single and two push-button operation parameterisable
■ one push-button operation for switching, pushing shutters and dimming
- area dimming

■ shutter operation concept short-long-short and long-short parameterisable
- rockers or push-button lockable via object

■ alarm telegram after disconnection from bus coupling unit 1 bit, 1 or 2 byte
■ with room temperature timer and 2-week timer functions
- for individual single room control

■ controller operating modes: comfort, standby, night and frost/heat protection mode
■ for heating and/or cooling mode with/without auxiliary step
■ control parameter for heating / cooling unit pre-set
\(\square\) for continuous (PI) or switched (2-point) control of max. 2 control circuits
\(\square\) temperature measurement via internal and/or external sensor with mean value formation
- presence button parameterisable to extend comfort

■ separate window contact object
\(\square\) indicator objects for heating and cooling
- with valve protection function

■ object for controller status
- with button lock function
- with flash-controller technology
- programmable with ETS2 as of V1.2a and ETS3

Order no.


Labelling field for B.IQ push-buttons 1gang,
2gang, 3gang
clear transparent 759000801
Dimensions (W x H x D) 151,6 x \(85 \times 5,7 \mathrm{~mm}\)

■ can be illuminated by status LED

\section*{Labelling field for B.IQ push-buttons 4gang}
clear transparent
75900081
Dimensions (W x H x D) \(151,6 \times 114,6 \times 5,7 \mathrm{~mm}\)

I on page T70
■ can be illuminated by status LED


I on page T70

Labelling field for B.IQ push-buttons 5gang
clear transparent
75900082
Dimensions (W x H x D) 151,6 x 144,2 x 5, 7 mm

PUSH-BUTTONS BCU/GROUP PUSH-BUTTONS BCU Push-button BCUs


\section*{Push-button BCU 1gang}
light grey 75191000
1
Operating voltage over bus 21-32 V=;
Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\)
IP44 with rocker.
for order no. 1290 05, 75991000,75991100 , 75991300

■ for switch and push-button functions
■ with integral bus coupling unit
\(\square\) with programming button
- with red programming LED and red status LED
- bus connection via connecting terminal

■ Wago clip-in 3-wire connection terminal for wiring


\section*{Push-button BCU 2gang}
light grey \(\quad 75192000\)
1
Operating voltage over bus \(21-32 \mathrm{~V}=\);
Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\)
Degree of protection IP44 with mounted rockers.
for order no. 759920 00, 75992100

■ for switch, push-button, dimmer and shutter functions
■ with integral bus coupling unit
- with programming button
- with red programming LED and 2 red status LEDs
\(\square\) bus connection via connecting terminal
■ Wago clip-in 3-wire connection terminal for wiring

\section*{Group push-button BCUs}


\section*{Group push-button BCU 1gang}
light grey \(\quad 75191100\)

1
Operating voltage over bus 21-32 V=;
Operating temperature \(-5-+45{ }^{\circ} \mathrm{C}\)
IP44 with rocker.
for order no. 1290 05, 759910 00, 75991100 , 759912 00, 75991300

■ for switch, push-button, dimmer and shutter functions
■ with integral bus coupling unit
- with programming button

■ with red programming LED and red status LED
- with neutral-position
\(\square\) bus connection via connecting terminal
- Wago clip-in 3-wire connection terminal for wiring

\begin{tabular}{|c|c|c|c|}
\hline Feature & Switch actuator 2gang 16 A, order no. 75312008 Switch actuator 4gang 16 A, order no. 75314015 Switch actuator 8gang 16 A, order no. 75318004 & \begin{tabular}{|l|} 
Switch actuator 4gang 16 A C load with current \\
detection, order no. 75314016 \\
Switch actuator 8gang 16 A C load with current \\
detection, order no. 75318005
\end{tabular} & \begin{tabular}{l}
Switch / shutter actuator 8/4gang 16 A , order no. 75318003 \\
Switch / shutter actuator 16/8gang 16 A, order no. 75310002
\end{tabular} \\
\hline - Type of installation & RMD & RMD & RMD \\
\hline - Module width (units) & 4/8 & 4/8 & 4/8 \\
\hline - Manual operation & \(\square\) & - & \(\square\) \\
\hline - Rated current & 16 A & 16 AX capacitive load & 16 A \\
\hline - Current detection & & \(\square\) & \\
\hline - Operating voltage & Bus & Bus & Mains: \(110-230 \mathrm{~V}\) AC \\
\hline - Relay type & bi-stable & bi-stable & mono-stable \\
\hline \multicolumn{4}{|l|}{Functions in application software (only switching) initialisation functions} \\
\hline - Relay operating mode (NO / NC contact) & \(\square\) & - & - \\
\hline - Behaviour after bus power restoration & - & - & - \\
\hline - Behaviour after bus / mains power restoration & - & - & - \\
\hline - Behaviour after ETS download & - & \(\square\) & \(\square\) \\
\hline - Behaviour after bus power failure & \(\square\) & \(\square\) & \(\square\) \\
\hline \multicolumn{4}{|l|}{Types of positive operation} \\
\hline - Blocking function & \(\square\) & - & \(\square^{11}\) \\
\hline - Positive operation & \(\square\) & \(\square\) & \({ }^{11}\) \\
\hline \multicolumn{4}{|l|}{Logical links} \\
\hline - AND & - & \(\square\) & \\
\hline - OR & - & - & - \\
\hline - AND with feedback & - & - & \(\square\) \\
\hline \multicolumn{4}{|l|}{Time functions} \\
\hline - Switch-on delay & - & - & - \\
\hline - Switch-off delay & - & - & - \\
\hline - Stairwell function & - & - & - \\
\hline - Stairwell function with switch-on delay & - & - & - \\
\hline - Pre-warning time & - & - & - \\
\hline - Time extension & - & - & - \\
\hline - Variable stairwell time & - & - & - \\
\hline - Variable stairwell time with activation & \(\square\) & \(\square\) & - \\
\hline \multicolumn{4}{|l|}{Other functions} \\
\hline - Light scene function & - & - & \(\square^{11}\) \\
\hline - Central function & - & - & \(\square\) \\
\hline - Cyclical monitoring & - & - & - \\
\hline - Operating hours meter & - & - & - \\
\hline \multicolumn{4}{|l|}{Current detection} \\
\hline - Measured value detection & - & - & - \\
\hline - Monitoring load range exceeded & - & - & - \\
\hline - Monitoring load range not reached & - & - & - \\
\hline - Teach-in function & - & \(\square\) & - \\
\hline \multicolumn{4}{|l|}{Manual operation} \\
\hline - Blocking function & \multirow[t]{2}{*}{mechanical Manual operation} & & \(\square\) (per channel) \\
\hline - Status & & Manual operation & - \\
\hline & & & \\
\hline - Relay status (individual) & - & - & - \\
\hline - Relay status (combined) & \(\square\) & \(\square\) & \(\square\) \\
\hline \multicolumn{4}{|l|}{Switching capacities} \\
\hline Switching capacities to DIN EN 60669 & \(16 \mathrm{~A} / 140 \mu \mathrm{~F}\) & 16 A/ \(200 \mu \mathrm{~F}\) & \(16 \mathrm{~A} / 140 \mu \mathrm{~F}\) \\
\hline \begin{tabular}{l}
Switching capacities to DIN EN 60947-4-1. \\
- AC1 \\
- AC3
\end{tabular} & 16 A & \[
\begin{aligned}
& 16 \mathrm{~A} \\
& 16 \mathrm{~A}
\end{aligned}
\] & 16 A \\
\hline Mechanical operating life & 1,000,000 & 1,000,000 & 5,000,000 \\
\hline Ohmic load & 3600 W & 3680 W & 3000 W \\
\hline Incandescent lamp load & 2500 W & 3680 W & 3000 W \\
\hline HV halogen lamp & 2500 W & 3680 W & 2500 W \\
\hline \multicolumn{4}{|l|}{LV halogen lamp} \\
\hline - on inductive transformers & 1200 W & 2000 W & 1500 W \\
\hline - on electronic transformers & 1500 W & 2500 W & 1800 W \\
\hline \multicolumn{4}{|l|}{Fluorescent lamp} \\
\hline - uncompensated & 2500 W & 3680 W & 1000 W \\
\hline - compensated & 1300 W & 2500 W & 1160 W \\
\hline - Duo circuit & 2300 W & 2500 W & 2300 W \\
\hline \multicolumn{4}{|l|}{Fluorescent lamp on electronic ballast} \\
\hline - Osram QTP 2x58W & 11 & 17 & 11 \\
\hline - Osram QT-FQ 2x54W & 11 & 17 & 11 \\
\hline - Osram QT-FH 2x28W & 17 & 25 & 17 \\
\hline Capacitive load & \(16 \mathrm{~A} / 140 \mu \mathrm{~F}\) & \(16 \mathrm{~A} / 200 \mu \mathrm{~F}\) & \(16 \mathrm{~A} / 140 \mu \mathrm{~F}\) \\
\hline Maximum making current & \(400 \mathrm{~A} / 150 \mu \mathrm{~s}\) & \(600 \mathrm{~A} / 150\) нs & \(800 \mathrm{~A} / 200 \mu \mathrm{~s}\) \\
\hline \multicolumn{4}{|l|}{} \\
\hline - Measuring range & - & approx. 250 mA to 20 A & - \\
\hline - Measuring accuracy & - & approx. \(\pm 8 \%\) & - \\
\hline
\end{tabular}
\({ }^{11}\) Note: With the switch / shutter actuator 16-/8gang (order no. 75310002) these functions are available only on use of the ETS3 Patch d or later (down loadable under www.knx.org).
\begin{tabular}{|c|c|c|}
\hline Feature & Shutter actuator 4gang 230 V AC / 2gang 12-48 V DC, order no. 75314018 Shutter actuator 8 gang \(230 \mathrm{~V} \mathrm{AC} \mathrm{/} \mathrm{4gang}\) 12-48 V DC, order no. 75318008 & \begin{tabular}{l}
Switch / shutter actuator 8/4gang 16 A, order no. 75318003 \\
Switch / shutter actuator 16/8gang 16 A, order no. 75310002
\end{tabular} \\
\hline \multicolumn{3}{|l|}{General} \\
\hline - Type of installation & RMD & RMD \\
\hline - Module width (units) & 4 & 4/8 \\
\hline - Manual operation & \(\square\) & \(\square\) \\
\hline - Rated current & 6 A & 16 A \\
\hline - Current detection & - & - \\
\hline - Operating voltage & Mains: 110-230 V AC & Mains: 110-230 V AC \\
\hline - Relay type & mono-stable & mono-stable \\
\hline - End position detection (electro-mechanical drives) & ■ & - \\
\hline \multicolumn{3}{|l|}{Functions in application software (only shutter) initialisation functions} \\
\hline - Behaviour after bus power restoration & ■ & \(\square\) \\
\hline - Behaviour after ETS download & \(\square\) & \(\square\) \\
\hline - Behaviour after bus power failure & \(\square\) & \(\square\) \\
\hline \multicolumn{3}{|l|}{Direct positive functions} \\
\hline - Up / Down / Stop & \(\square\) & \(\square\) \\
\hline - Blade adjustment & \(\square\) & \(\square\) \\
\hline - Move to position (blades and shutter) & \(\square\) & \(\square\) \\
\hline - Positions with end position detection & \(\square\) & - \\
\hline - Central function & \(\square\) & - \\
\hline - Light scene function & \(\square\) & \(\square\) \\
\hline - Fabric tensioning / ventilation & \(\square\) & \(\square\) \\
\hline - Shutters / awnings operation & \(\square\) & \(\square\) \\
\hline - Ventilation flap operation & \(\square\) & ■ \\
\hline \multicolumn{3}{|l|}{Sun protection function} \\
\hline - Simple sun protection & ■ & \(\square\) \\
\hline \multicolumn{3}{|l|}{Automatic function} \\
\hline - Sun protection (extended) & \(\square\) & - \\
\hline - Heating / cooling & \(\square\) & - \\
\hline \multicolumn{3}{|l|}{Security functions} \\
\hline - Wind alarms (3 items) & \(\square\) & \(\square\) \\
\hline - Rain alarm & \(\square\) & \(\square\) \\
\hline - Frost alarm & \(\square\) & \(\square\) \\
\hline - Positive operation & \(\square\) & \(\square\) \\
\hline \multicolumn{3}{|l|}{Feedback functions} \\
\hline - Position shutter & ■ & ■ \\
\hline - Position blades & \(\square\) & \(\square\) \\
\hline - Invalid position & \(\square\) & \(\square\) \\
\hline - Drive movement & \(\square\) & ■ \\
\hline \multicolumn{3}{|l|}{Manual operation} \\
\hline - Blocking function & - (per channel) & - (per channel) \\
\hline - Status & ■ & ■ \\
\hline \multicolumn{3}{|l|}{Switching capacities} \\
\hline Contact load rating & 6 A / 230 V AC1 & \(16 \mathrm{~A} / 230 \mathrm{~V}\) AC1 \\
\hline Switching capacities to DIN EN 60669 & \(6 \mathrm{~A} / 230 \mathrm{VAC1}\) & \(16 \mathrm{AX} / 140 \mu \mathrm{~F}\) \\
\hline AC switching capacity & 6 A / 230 V ( \(50 \%\) switch-on time) \(3 \mathrm{~A} / 230 \mathrm{~V}\) (continuous rating) & 16 A \\
\hline DC switching capacity & \begin{tabular}{l}
6 A / 12-48 V DC ( \(50 \%\) switch-on time) \\
\(3 \mathrm{~A} / 12-48 \mathrm{~V}\) DC (continuous rating)
\end{tabular} & - \\
\hline \begin{tabular}{l}
Switching capacities to DIN EN 60947-4-1. \\
- AC1 \\
- AC3
\end{tabular} & \[
6 \text { A }
\] & \[
16 \mathrm{~A}
\] \\
\hline Ohmic load & - & 3000 W \\
\hline Incandescent lamp load & - & 3000 W \\
\hline HV halogen lamp & - & 2500 W \\
\hline \begin{tabular}{l}
LV halogen lamp \\
- on inductive transformers \\
- on electronic transformers
\end{tabular} & - & \[
\begin{aligned}
& 1500 \mathrm{~W} \\
& 1800 \mathrm{~W} \\
& \hline
\end{aligned}
\] \\
\hline \begin{tabular}{l}
Fluorescent lamp \\
- uncompensated \\
- compensated \\
- Duo circuit
\end{tabular} & - & \[
\begin{aligned}
& 1000 \mathrm{~W} \\
& 1160 \mathrm{~W} \\
& 2300 \mathrm{~W}
\end{aligned}
\] \\
\hline \begin{tabular}{l}
Fluorescent lamp on electronic ballast \\
- Osram QTP 2x58W \\
- Osram QT-FQ \(2 \times 54 \mathrm{~W}\) \\
- Osram QT-FH 2x28W
\end{tabular} & - & \[
\begin{array}{r}
11 \\
11 \\
17 \\
\hline
\end{array}
\] \\
\hline Capacitive load & - & \(16 \mathrm{~A} / 140 \mu \mathrm{~F}\) \\
\hline Maximum making current & - & \(800 \mathrm{~A} / 200 \mu \mathrm{~s}\) \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|}
\hline Feature & \begin{tabular}{l}
Universal dim actuator 1 gang, RMD order no. 75311008 \\
Universal dim actuator 2gang, RMD order no. 75314017 \\
Universal dim actuator 4gang, RMD order no. 75314017
\end{tabular} & Universal dim actuator 1gang 50-210 WNA flush-mounted, order no. 75341003 & DALI gateway RMD, order no. 75710003 \\
\hline \multicolumn{4}{|l|}{General} \\
\hline Outputs & 1/2/4 & 1 & 1 (for max. 64 devices in 32 groups) \\
\hline Type of installation & RMD & Flush-mounted & RMD \\
\hline Type of installation & 4/4/8 & - & 4 \\
\hline Manual operation & - & - & - \\
\hline Operating voltage & 110 ... \(230 \mathrm{~V}, 50 / 60 \mathrm{~Hz}\) & \(230 \mathrm{~V}, 50 / 60 \mathrm{~Hz}\) & 110 ... \(230 \mathrm{~V}, 50 / 60 \mathrm{~Hz}\) \\
\hline \multicolumn{4}{|l|}{Functions in application software (only switching) Initialisation functions} \\
\hline - Behaviour after bus power restoration & - & - & ■ \\
\hline - Behaviour after ETS download & - & - & - \\
\hline - Behaviour after bus power failure & - & - & - \\
\hline - Switch-on brightness & - & - & - \\
\hline - Basic brightness & - & - & - \\
\hline - Upper dimming limit & \(\square\) & - & \(\square\) \\
\hline \multicolumn{4}{|l|}{Direct functions} \\
\hline - On/Off & - & - & \(\square\) \\
\hline - Relative dimming & \(\square\) & \(\square\) & \(\square\) \\
\hline - absolute dimming & - & - & - \\
\hline \multicolumn{4}{|l|}{Types of positive operation} \\
\hline - Blocking function & - & - & \(\square\) \\
\hline - Positive operation & - & - & - \\
\hline \multicolumn{4}{|l|}{Time functions} \\
\hline - Switch-on delay & - & \(\square\) & - \\
\hline - Switch-off delay & - & - & - \\
\hline - Timed dimming function & - & - & - (Groups 1-16) \\
\hline - Pre-warning time & - & - & - (Groups 1-16) \\
\hline - Time extension & - & - & - \\
\hline - Variable stairwell dimming time & - & - & - \\
\hline - Variable stairwell dimming time with activation & - & - & - \\
\hline - Soft switch-on & - & \(\square\) & - \\
\hline - Soft switch-off & \(\square\) & \(\square\) & \(\square\) \\
\hline - Switch-off brightness & \(\square\) & - & - \\
\hline - Characteristic curve correction & \(\square\) & - & - \\
\hline \multicolumn{4}{|l|}{Other functions} \\
\hline - Light scene function & - & - & - \\
\hline - Central function & - & - & - \\
\hline - Setting for type of load & - & - & - \\
\hline - Operating hours meter & - & - & - \\
\hline - Independent binary inputs & - & 2 & - \\
\hline \multicolumn{4}{|l|}{Manual operation} \\
\hline - Blocking function & - (per channel) & - & - \\
\hline - Status & \(\square\) & - & - \\
\hline \multicolumn{4}{|l|}{Feedback functions} \\
\hline - Switch status feedback & \(\square\) & \(\square\) & \(\square\) \\
\hline - Brightness value feedback & - & - & - \\
\hline - Short circuit feedback & - & - & - \\
\hline - Open circuit feedback & \(\square\) & \(\square\) & - \\
\hline \multicolumn{4}{|l|}{DALI-specific functions} \\
\hline - Individual DALI device status feedback & - & - & - \\
\hline - DALI power supply status feedback & - & - & - \\
\hline - DALI short circuit feedback & - & - & - \\
\hline \multicolumn{4}{|l|}{Power output / output variables} \\
\hline Maximum power per channel & 500/300/250 WNA & 210 W/NA & - \\
\hline Minimum power per channel & 20 WNA & 50 WNA & - \\
\hline Parallel switching of several channels & -/-/ & & \\
\hline Universal boosters per channel & on request & - & - \\
\hline Max. number of controllable DALI devices & - & - & 64 \\
\hline Max. number of DALI devices per group 1-16 & - & - & 64 \\
\hline Max. number of DALI devices per group 17-32 & - & - & 1 \\
\hline
\end{tabular}

\section*{Safety systems}

\section*{Building management systems Alarm systems, detectors, alarm units}

With innovative technology and restrained design that integrates virtually unnoticed into the living environment, Berker's safety system provides reliable protection for both the material and the sentimental valued things in your customer's life. These systems ensure reliable protection against break-ins, theft, vandalism and fire.

Conventional alarm system
Conventionally-wired alarm systems offer particularly economical monitoring for smaller properties such as owner-occupied flats, whole-floor flats, holiday homes etc..
- Monitoring during absences and when occupier is present
- Emergency/attack button can be integrated
- Sabotage protection and emergency power supply
- with four signalling lines and key switches

KNX/EIB Alarm system
A very high-performance alarm system for integration into the intelligent KNX/EIB building management system offering optimal protection of monitored properties.
- Simple connection to KNX/EIB with no additional wiring required
- Integration of conventional detectors and alarm units via KNX/EIB Universal interfaces
- Management of 160 detectors in four separate security zones
- Event documenting and emergency power suppl

\begin{tabular}{lr} 
Alarm system wired & 428 \\
\hline Alarm system KNX/EIB & \(428-430\) \\
\hline Detectors & \(430-431\) \\
\hline Alarm units & 431 \\
\hline Gateways & 432 \\
\hline Activation switches & \(432-433\) \\
\hline Complusory activating device & 433 \\
\hline Accessories & 433 \\
\hline Smoke detectors & 4
\end{tabular}

Order no.
Packing
unit
ALARM SYSTEM WIRED

\section*{Alarm central unit}
polar white/black 9020
1
Operating voltage \(230 \mathrm{~V} \sim\);
Frequency 50 Hz ;
Operating voltage, alternative \(12 \mathrm{~V}=\);
Output voltage \(12 \mathrm{~V}=\);
1 on page T43 Switching current at \(12 \mathrm{~V}=:\) max. 1 A ;
Buzzer volume \(85 \mathrm{dBA} / 10 \mathrm{~cm}\);
Siren duration adjustable approx. 0-180 sec.;
Activation/alarm delay time adjustable 0-60 sec.;
Pulse duration for inputs min. 0,4 sec.;
Operating temperature \(0-50^{\circ} \mathrm{C}\);
Dimensions (W x H x D) \(165 \times 215 \times 48 \mathrm{~mm}\)
Lithium battery pack 14.4 V for emergency power supply - order separately!
- for wired components
- with 4 signal lines (internal, external, sabotage, 24 h)
- 2 control centre and 4 signal line status LED
- emergency power supply from battery
- with sabotage protection by contact in cover
- with integrated key switch and 2 keys
- with buzzer for acknowledgement and internal alarm message
■ flash light on external siren lights until disarmed
- with fitting material
- with screw terminals

\section*{Accessories: Lithium battery pack 14.4 V 921401 \\ 1}

\section*{\(14,4 \mathrm{~V}=, 2 \mathrm{Ah}\)}

Cable length approx. 60 mm

■ as emergency power supply for alarm central unit

Order no.
Packing
unit

\section*{ALARM SYSTEM KNX/EIB}

\section*{Alarm central unit KNX/EIB}
polar white/black \(\quad 75730010\)
1
Operating voltage \(230 \mathrm{~V} \sim\);
Frequency \(50 / 60 \mathrm{~Hz}\);
Output voltage \(12 \mathrm{~V}=\);
Switching current max. 1,8 A;
Switching current change-over contact \(12 \mathrm{~V}=\) max. 5 A;
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
Max. cable length, alarm units 100 m ;
Cable length for wired detector, max. 200 m;
Max. cable length sabotage 600 m ;
Dimensions (W x H x D) \(210 \times 270 \times 72 \mathrm{~mm}\)
To agree upon a training date, please contact your regional Berker field sales representative.

To prevent malfunctions, we recommend that only Berker KNX/EIB products are used in connection with the alarm central unit KNX/EIB.

■ for maximum 160 sensors (communication objects) and 4 alarm zones
■ alarm zones can be activated individually or linked
- history memory with individual sensor identification
- detector descriptions can be defined as required
- cyclic sensor monitoring

■ alarm duration and delay times activated/alarm adjustable
■ sensor inputs via binary inputs or universal interfaces
■ activat. phone dial unit assault, burglary, fire, malfunc.,armed/not armed on potent.-free cont./ KNX
- outputs for outside/inside siren and flash light or connection to KNX/EIB via actuator
- with sabotage protection by contact in cover
- additional signal input as sabotage protection for mounting place
■ decentral indication and operation, e.g. info display
■ with emergency power storage battery 12 V for maximum 12 hours
■ with integral clock (DCF-compatible using system clock)
■ with green operation LED and red programming LED
- with control LED per output
- cascadable
- with fitting material

■ requirement: ETS2 V1.2a or ETS3
■ bus connection via connecting terminal
■ with screw terminals
Accessories: Emergency power storage battery 12 V

920001
\(12 \mathrm{~V}=, 1,2 \mathrm{Ah}\)
for order no. 75730010

■ for alarm central unit KNX/EIB
- for replacement need

Order no.
Packing
unit
Order no.

\section*{Universal interfaces}

Universal interface 2gang comfort flush-mounted
light grey \(\quad 75642001\)
1
Operating voltage over bus \(21-32 \mathrm{~V}=\);
Input scanning voltage per channel 5 V ;
Output current per channel max. 0,8 mA;
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
Cable length approx. 250 mm ;
Extendable cable length max. 5 m ;
Dimensions (L x W x H) \(43 \times 28,5 \times 15,5 \mathrm{~mm}\)

■ with 2 independent binary inputs for potential-free contacts
■ 2 binary inputs, 2 outputs or 1 binary input and 1 output parameterisable
- outputs for LED e.g. as status LED
- for switch, push-button, dimmer and shutter functions
- value transmitter for dimming, position, brightness and temperature values 1 and 2 byte
- functions: impulse counter or switch counter for input 1
- for impulse counter function, input 2 is required for the synchronising signal
■ extension unit for light scene push-button
- cyclic transmission parameterisable for switching function
- single and two push-button operation parameterisable
■ one push-button operation for switching, pushing, shutters and dimming
- shutter operation concept short-long-short and long-short parameterisable
- objects for locking individual inputs and outputs

■ objects: switching, forced guidance and feedback of respective output
- object for logic operations (e.g. OR/AND/AND with feedback)
\(\square\) with programming button and red programming LED
■ bus connection via connecting terminal

\section*{Universal interface 4gang comfort flush-mounted \\ light grey \(\quad 75644001\)}

Operating voltage over bus 21-32 V=; Input scanning voltage per channel 5 V ; Output current for channels 1 and 2 , each max. 0,8 mA;
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
Cable length approx. 250 mm ;
Extendable cable length max. 5 m ;
Dimensions (L x W x H) \(43 \times 28,5 \times 15,5 \mathrm{~mm}\)

■ with 4 independent binary inputs for potential-free contacts
- 4 binary inputs or 2-3 binary inputs and 1-2 outputs parameterisable
■ outputs for LED e.g. as status LED
\(\square\) for switch, push-button, dimmer and shutter functions
\(\square\) value transmitter for dimming, position, brightness and temperature values 1 and 2 byte
- functions: impulse counter or switch counter for inputs 1 and 2
- for impulse counter function, inputs 3 and 4 are required for the synchronising signal
- extension unit for light scene push-button
- cyclic transmission parameterisable for switching function
\(\square\) single and two push-button operation parameterisable
■ one push-button operation for switching, pushing, shutters and dimming
- shutter operation concept short-long-short and long-short parameterisable
- objects for locking individual inputs and outputs
- objects: switching, forced guidance and feedback of respective output
- object for logic operations (e.g. OR/AND/AND with feedback)
- with programming button and red programming LED
- bus connection via connecting terminal

Order no.
Packing
unit

\section*{Universal interface 8gang comfort flush-mounted}
black \(\quad 75648001\)
Operating voltage over bus 21-32 V=;
Input scanning voltage per channel 20 V ;
Output current per channel max. \(0,8 \mathrm{~mA}\);
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
Max. cable length 10 m ;
Dimensions (W x H x D) \(44 \times 48 \times 32 \mathrm{~mm}\)
with 8 independent binary inputs for potential-free contacts
- 8 binary inputs, 8 outputs or 4 binary inputs and 4 outputs parameterisable
■ outputs for LED e.g. as status LED
■ with programming button and red programming LED
\(\square\) for switch, push-button, dimmer and shutter functions
■ dimming / position value transmitter 1 byte
■ extension unit for light scene push-button
■ cyclic transmission can also be started via switching object
- single and two push-button operation parameterisable
■ one push-button operation for switching, pushing and dimming
■ shutter operation concept short-long-short and long-short parameterisable
■ objects: switching, pos. oper., feedback of respective output (only for applic. 4input/4output)
■ object for audio/video control
\(■\) second operating level by object or 3-button handle (only 8-input application)
- short-circuit and overload proof (electronic fuse)
- protected against polarity reversal
\(\square\) bus connection via connecting terminal
■ with screw terminals

Order no.

\section*{DETECTORS}

Magnetic contacts

\section*{Magnetic contact}
\begin{tabular}{lll} 
polar white & 925102 & 1 \\
brown & 925101 & 1
\end{tabular}

Switching voltage max. \(40 \mathrm{~V}=\);
Switching current max. 500 mA ;
Max. switching capacity 10 W ;
Cable length 3 m ;
Dimensions, sensor \((\mathrm{L} \times \mathrm{W} \times \mathrm{H}) 44 \times 15 \times 15 \mathrm{~mm}\)
RolloTec function:
When window is open, blind moves to the lower end position for example.

Suitable for RolloTec covers with sensor connection.
To monitor window and door opening.
RolloTec time switch with sensor connection order no. 1775 ..
RolloTec memory button with sensor connection order no. 1757 ..
RolloTec radio button with sensor connection order no. 1759 .
RolloTec button comfort with sensor connection order no. 1771 ..
Connection e.g. with universal Interface order
no. 7564 .. on central alarm KNX/EIB order no. 75730010
For alarm central unit order no. 9020
IP67
■ built-on/built-in
- pre-assembled, with cable
- in the isolated state the contact is open


\section*{Gate contact}

Switching voltage max. \(20 \mathrm{~V}=\);
Switching current max. 500 mA ;
Cable length 2 m
Connection e.g. with universal interface order no. 7564 .... to alarm central unit KNX/EIB order no. 75730010 For alarm central unit order no. 9020

\section*{IP67}
- magnetic contact to monitor opening of gates and roller doors
- solid metal design
- for floor mounting
- with fitting material
- pre-assembled, with cable
- in the isolated state the contact is open

Order no.
Order no.
unit
Glass breakage sensors


Glass breakage sensor
\begin{tabular}{lll} 
polar white & 925302 & 1 \\
brown & 925301 & 1
\end{tabular}

Switching voltage max. \(18 \mathrm{~V}=\);
Switching current max. 10 mA ;
Transition resistance no load max. \(30 \Omega\);
I on page T44 Transition resistance alarm state min. \(1 \mathrm{M} \Omega\);
Opening time 0,5-5 sec. depending on glass type; Cable length 5 m

Attention!
Please use the following adhesive sets only.
Loctite, www.loctite.com
29691 glass-metal adhesive set consisting of:
319 adhesive and
7649 activator
for order no. 9020
Connection e.g. with universal interface order no. 7564 .. .. to alarm central unit KNX/EIB order no. 75730010

\section*{IP67}

■ passive piezoelectric glass breakage sensor
■ with potential-free contacts without auxiliary voltage
- for bonding on window pane
- pre-assembled, with cable
- opens the contact in case of glass breakage


I on page T43
Motion detector \(90^{\circ}\)
polar white 9155
\(12 \mathrm{~V}=\)
Recommended installation height approx. 2,3 m;
Range approx. 15 m;
Detection angle \(90^{\circ}\);
Sectors 31;
Switching segments 124 ;
Sensitivity adjustable 2-4 pulses;
Dimensions (W x H x D) \(60 \times 112 \times 42 \mathrm{~mm}\)
for order no. 9020
Connection e.g. with universal interface order
no. 7564 .. .. to alarm central unit KNX/EIB order
no. 75730010

\section*{IP20}
- with LED detection indicator
\(\square\) with failsafe break contact (NC contact)
\(\square\) with sabotage protection by contact in cover
- with crawl-under protection
- for wall and corner mounting
- with cable entry at top, backside and each side
\(\square\) with screw terminals

ALARM UNTS
Sirens


External siren with flashlight polar white 905150 1
\(12 \mathrm{~V}=\)
Current consumption max. 600 mA ;
Flash current consumption 300 mA ;
Siren current consumption 300 mA ;
1 on page T44 Flash energy \(6,7 \mathrm{Ws}\);
Flash alarm duration - Fuzzy;
Duration of siren alarm - fuzzy, max. 3 min.;
Sound pressure at 1 metre distance 108 dB ;
Operating temperature \(-20-+50^{\circ} \mathrm{C}\);
Weight approx. 2,8 kg;
Dimensions (W x H x D) \(180 \times 390 \times 140 \mathrm{~mm}\)

For alarm central unit KNX/EIB order no. 75730010
For alarm central unit order no. 9020
IP64
\(\square\) for connection to alarm central unit and KNX/EIB alarm central unit
- with loud pressure-chamber siren
\(\square\) with sabotage protection by contact in cover and arcing contact
- powder-coated stainless steel housing
- with fitting material

■ with screw terminals

\section*{Internal siren}
polar white 90501

9-14 V=, \(140 \mathrm{~mA} / 12 \mathrm{~V}=\)
Switch-on time ED 100 \%;
Sound pressure at 1 metre distance 110 dB ;
Signal frequency adjustable \(2800-3100 \mathrm{~Hz}\);
Operating temperature \(-20-60{ }^{\circ} \mathrm{C}\);
Weight approx. 160 g;
Dimensions (W x H x D) \(145 \times 95 \times 30 \mathrm{~mm}\)
The indoor siren can be operated together with the external siren on the alarm central unit.

The indoor siren serves firstly to alarm the residents, for example when there is a smoke alarm. Secondly the loud acoustic signal scares away criminals. For alarm central unit KNX/EIB order no. 75730010 For alarm central unit order no. 9020

\section*{IP30}
\(\square\) for connection to alarm central unit and KNX/EIB alarm central unit
■ with loud piezo signal generator, dual tone
- with sabotage protection by contact in cover
- with break-out cable entry at top/bottom and backside
- with fitting material
- with screw terminals

\section*{Tele-control surface-mounted}
light grey \(\quad 75730011\)
Operating voltage over bus 21-32 V=;
Auxiliary voltage 230 V~;
Frequency \(50 / 60 \mathrm{~Hz}\);
Switching voltage 12 V ;
Switching current 100 mA (short-circuit-proof);
Message/status texts per 6;
Call numbers for alarm 4;
Operating temperature \(-5-+45^{\circ} \mathrm{C}\);
Dimensions (W x H x D) \(205 \times 251 \times 49 \mathrm{~mm}\)
For alarm central unit KNX/EIB order no. 75730010
- control/polling with conventional TSU phone
\(\square\) to alarm neighbours and acquaintances as well as using mobile
■ alarm via voice message, SMS, fax or e-mail possible
- with password protection using four-digit number on opening
- programme memory network failure proved

■ Monitoring of the analogue telephone line
- with voice message that can be personally adapted, and operator guidance with language support
- with 4-line LC display for status display

■ with 10 Instabus KNX/EIB signal inputs
- with 6 potential-free signal inputs

■ with 10 selectable Instabus KNX/EIB outputs
- with 6 selectable relay outputs (normally open)
- channels can be adjusted independently
\(■\) Commissioning via integrated rotary switch or via PC
■ analogue, extension unit compatible e.g. to TAE
N socket and UAE socket
- with TAE N connection cable

■ with PC software and connecting cable
■ with plug-in power supply unit
■ bus connection via connecting terminal
■ with screw terminals

\section*{Accessories: Handset}
black 759000091
- for recording custom announcement texts
\(\square\) standard commercially available telephone receiver with RJ11 plug

Order no.
Packing
unit

\section*{ACTIVATION SWITCHES}

\section*{Key switches}

Key switch with LED flush-mounted
polar white 910301
\(12 \mathrm{~V}=\)
Switching current \(500 \mathrm{~mA} / 60 \mathrm{~V}=\);
Current consumption per LED max. 5 mA ;
Buzzer current consumption 6 mA ;
I on page T44 Buzzer volume \(70 \mathrm{dBA} / 30 \mathrm{~cm}\);
Operating temperature \(-20-+60^{\circ} \mathrm{C}\);
Flush-mounted housing dimensions (W \(\times \mathrm{H} \times \mathrm{D}\) )
\(79 \times 113 \times 53,5 \mathrm{~mm}\);
Front plate dimensions (W x H) \(101 \times 135 \mathrm{~mm}\)
Recommendation: Use identical closing to that of the master key system.

For suitable alternative profile half cylinders, see module inserts.

Profile half cylinder see module inserts / accessories order no. 1818 01, 1818
Connection e.g. with universal interface order
no. 7564 .. .. to alarm central unit KNX/EIB order
no. 75730010
For alarm central unit order no. 9020
IP54
■ to connect to alarm central unit
- with 2 LEDs for free activation, orange and green

■ with protection against drilling and ceiling contact to prevent sabotage
■ with acknowledgement buzzer
■ powder-coated aluminium front plate
- for profile half cylinders
- with two-hole screws as dismantling protection and screwdriver
■ with screw terminals

Order no.

\section*{Key switch surface-mounted with LED polar white 9103021 \\ \(12 \mathrm{~V}=\) \\ Switching current \(500 \mathrm{~mA} / 60 \mathrm{~V}=\); \\ Current consumption per LED max. 5 mA ; \\ Buzzer current consumption 6 mA ; \\ I on page T44 Buzzer volume \(70 \mathrm{dBA} / 30 \mathrm{~cm}\); \\ Operating temperature \(-20-+60^{\circ} \mathrm{C}\); \\ Dimensions (W x H x D) 79,5 x 113,5 x 54 mm}

Recommendation: Use identical closing to that of the master key system.

For suitable alternative profile half cylinders, see module inserts.

Profile half cylinder see module inserts / accessories order no. 1818 01, 1818
Connection e.g. with universal interface order no. 7564 .. .. to alarm central unit KNX/EIB order no. 75730010
For alarm central unit order no. 9020
IP54
\(\square\) to connect to alarm central unit
- with 2 LEDs for free activation, orange and green

■ with protection against drilling and ceiling contact to prevent sabotage
■ with acknowledgement buzzer
- powder-coated aluminium front plate
\(\square\) for profile half cylinders
- with two-hole screws as dismantling protection and screwdriver
- with screw terminals


Order no.
\begin{tabular}{|c|c|}
\hline \multicolumn{2}{|l|}{Bolt switch contact} \\
\hline  & \begin{tabular}{l}
Bolt switch contact \\
NO contact 9107 \\
Switching voltage max. \(30 \mathrm{~V}=\); \\
Switching current max. 100 mA ; \\
Cable length approx. 2 m ; \\
Dimensions (W x H x D \() 11 \times 40 \times 22 \mathrm{~mm}\) \\
Transfer of contact position to bus e.g. with universal interface order no. 75648001 \\
For alarm central unit KNX/EIB order no. 75730010 \\
■ is operated by lock bolt \\
- to build into the lock plate on the door frame \\
■ with switch lever extension \\
- for alarm central unit KNX/EIB
\end{tabular} \\
\hline \multicolumn{2}{|l|}{Pulse door openers} \\
\hline  & \begin{tabular}{l}
Pulse door opener
\[
\begin{aligned}
& \text { \#9106 } \\
& 10-15 \mathrm{~V}= \\
& \text { Current consumption (pulse) approx. } 320 \mathrm{~mA} \text {; } \\
& \text { Feedback contact voltage max. } 30 \mathrm{~V}=\text {; } \\
& \text { Feedback contact current max. } 10 \mathrm{~mA} \text {; } \\
& \text { Pulse time min. } 50 \mathrm{~ms} ; \\
& \text { Operating temperature }-25-+60^{\circ} \mathrm{C} \text {; } \\
& \text { Distance to the counterpiece max. } 8 \mathrm{~mm} \text {; } \\
& \text { Dimensions housing (W } \times \mathrm{H} \times \mathrm{D}) 26 \times 113 \times 29 \mathrm{~mm} \text {; } \\
& \text { Dimensions lock plate }(\mathrm{W} \times \mathrm{H} \times \mathrm{D}) 30 \times 160 \times 3 \mathrm{~mm}
\end{aligned}
\] \\
For activation via switch actuator order \\
no. 75316002 \\
For alarm central unit KNX/EIB order no. 75730010 \\
to build into the door frame additionally independent of position \\
- for alarm central unit KNX/EIB \\
- with screw terminals
\end{tabular} \\
\hline
\end{tabular}

\section*{ACCESSORIES}

Distribution terminals
Distribution terminal flush-mounted polar white 9254 1
\(12 \mathrm{~V}=\)

■ with 8pole through-contacted circuit board
■ with sabotage protection by contact in cover
\(\square\) with cover
- suitable for standard commercially available flushmounted and hollow-wall boxes
\(\square\) without spreader claws
■ with screw terminals

Distribution terminal surface-mounted
polar white 9259
\(12 \mathrm{~V}=\)
Dimensions \((\mathrm{W} \times \mathrm{H} \times \mathrm{D}) 36 \times 132 \times 34 \mathrm{~mm}\)

■ with 8pole through-contacted circuit board
- with sabotage protection by contact in cover
- with fitting material

■ with solder connection

Order no.
Packing
unit

\section*{SMOKE DETECTORS}


Smoke detector RM. 1
polar white 019109
1
\(9 \mathrm{~V}=\)
Max. monitoring area \(60 \mathrm{~m}^{2}\);
Acoustic alarm > \(85 \mathrm{dBA} / 3 \mathrm{~m}\);
Network cable, e.g. JY-ST-Y \(2 \times 2 \times 0,6 \mathrm{~mm}\);
I on page T45
Max. network cable length 450 m;
Battery life approx. 2 years;
Operating temperature \(-10-+60^{\circ} \mathrm{C}\);
Dimensions (diameter x assembling height)
\(100 \times 51 \mathrm{~mm}\)
Fixing of the smoke detector on the bottom part is only possible with a battery.

The smoke detector RM. 1 is a home smoke detector designed for application in closed living quarters as e.g. flats, residential houses.

It is for early detection of smouldering fires and open fires producing smoke in interiors.

Approval according to ISO 12239
Approval according to DIN EN 14604
Approval according to DIN 14676
IP43
■ VdS certified Nr. G203023
■ not dependent on mains power
- works on stray light principle (Tyndall effect) with no radioactive compounds
- loud warning tone in case of alarm

■ with red alarm LED
- with block battery 9 V

■ with networking terminal for forwarding of alarm and service signals, max. 40 smoke detectors RM. 1
- optional push-on radio networking module for forwarding of alarm and service signals pluggable
■ optional push-on relay module for external signal generators or connection to/networking via KNX/ EIB
- automatic self-test function
- contamination and fault display
- with antistatic insect screen
- with battery change indicator at least 30 days
- with button for manual function test
- with sealing
- with fitting material
- for ceiling mounting

\section*{Smoke detector accessories}

Relay module for smoke detector RM. 1

Connection e.g. with universal interface order no. 7564 .. .. to alarm central unit KNX/EIB order no. 75730010
Connection to alarm central unit order no. 9020

■ for connection of external signal generators such as horns, flash lights, vibration pads etc.
- for connection to and networking via KNX/EIB
\(\square\) with potential-free change-over contact
\[
019151
\]

Switching voltage max. \(30 \mathrm{~V}=\);
Switching current max. 2 A;
Operating temperature \(-10-+60^{\circ} \mathrm{C}\)

\section*{I on page T45}

For smoke detector order no. 019109


Order no.
Packing
unit


\title{
Berker Integro Flow
}

\section*{Industrial design range Built-in system}

A modern solution for every installation environment - straight-line contours and angular corners, coupled with arched surface geometry. These characteristics mean that Integro Flow ensures a smooth transition from installation surface to control element. The ideal product for virtually any interior style.
- Modular product concept
- Combination frames allow you to combine up to 3 devices vertically or horizontally
- Wide variety of colour finishes
- Surfaces in smooth glossy and structured matt

Marked items are suitable for splash-protected flush-mounted IP44 installation when used in conjunction with appropriate seal and frame with IP44 printing.

\begin{tabular}{lc} 
Frames & 438 \\
\hline Frames with hinged cover & 438 \\
\hline Blank plates & 438 \\
\hline Surface-mounted housings & 439 \\
\hline Accessories & 439
\end{tabular}

Order no.
Order no.


I on page T71

\section*{Frame 1gang}
\begin{tabular}{|c|c|c|}
\hline brown, matt & 0918272501 & 10 \\
\hline anthracite, matt & 0918272505 & 10 \\
\hline grey, glossy & 0918272507 & 10 \\
\hline polar white, glossy & 0918272509 & 10 \\
\hline black, glossy & *091827 2510 & 10 \\
\hline chrome, matt lacquered & *091827 2558 & 10 \\
\hline stainless steel, lacquered & *0918272524 & 10 \\
\hline
\end{tabular}
lacquered
Frame 2gang



I on page T71

\section*{Frame 3gang}
\begin{tabular}{lrl} 
brown, matt & \(091819 \mathbf{2 5 1 1}\) & 2 \\
anthracite, matt & \(091819 \mathbf{2 5 1 5}\) & 2 \\
grey, glossy & \(\mathbf{0 9 1 8 1 9} \mathbf{2 5 0 7}\) & 2 \\
polar white, glossy & \(\mathbf{0 9 1 8 1 9} \mathbf{2 5 1 9}\) & 2 \\
black, glossy & \(\boldsymbol{* 0 9 1 8 1 9 \mathbf { 2 5 1 0 }}\) & 2 \\
chrome, matt lacquered & \(\mathbf{0 9 1 8 1 9} \mathbf{2 5 6 8}\) & 2 \\
\begin{tabular}{lr} 
stainless steel, & \(\boldsymbol{* 0 9 1 8 1 9} \mathbf{2 5} \mathbf{2 4}\)
\end{tabular} & 2
\end{tabular} lacquered

■ for vertical and horizontal mounting


Frame 1gang with labelling field
\begin{tabular}{lll} 
anthracite, matt & \(091803 \mathbf{2 5 0 5}\) & 10 \\
grey, glossy & \(\mathbf{0 9 1 8 0 3 2 5 0 7}\) & 10 \\
polar white, glossy & \(\mathbf{0 9 1 8 0 3 2 5 0 9}\) & 10
\end{tabular}
chrome, matt lacquered *0918032568 10

Labelling field height arranged for 6 mm P-touch strips.


I on page T71
\begin{tabular}{|c|c|c|}
\hline \multicolumn{3}{|l|}{Frame with imprint „IP44"} \\
\hline brown, matt & 0918272591 & 10 \\
\hline anthracite, matt & 0918272595 & 10 \\
\hline grey, glossy & 0918272597 & 10 \\
\hline polar white, glossy & 0918272599 & 10 \\
\hline chrome, matt lacquered & * 0918272568 & 10 \\
\hline \multicolumn{3}{|l|}{Not for devices with split rocker!} \\
\hline
\end{tabular}

Protection class IP44 only guaranteed for installation with sealing order no. 091853

\author{
IP44
}
- without sealing

■ for covering on rocker switches/rocker pushbuttons

FRAME WITH HINGED COVER


Frame 1gang with hinged cover
brown, matt 0918282501
anthracite, matt 091828250510
grey, glossy \(0918282507 \quad 10\)
polar white, glossy \(0918282509 \quad 10\)
black, glossy *091828 251010
chrome, matt lacquered *09 1828257810
stainless steel, *0918282524 10
lacquered
- for covering on socket outlets
\begin{tabular}{llll}
\hline & \begin{tabular}{l} 
Frame 1gang with hinged cover \\
and labelling field \\
anthracite, matt
\end{tabular} & 0919882505 & 10 \\
grey, glossy & 0919882506 & 10 \\
\hline & polar white, glossy & \(091988 \mathbf{2 5 0 2}\) & 10 \\
& \\
\hline
\end{tabular}
- for covering on socket outlets

■ with 2 labelling field inlays, neutral and perforated for socket outlet with indicator LED
\begin{tabular}{|c|c|c|c|}
\hline NEW - & \multicolumn{3}{|l|}{Frame with hinged cover and imprint „IP44"} \\
\hline - & brown, matt & 0918282591 & 10 \\
\hline & anthracite, matt & 0918282595 & 10 \\
\hline & grey, glossy & 0918282597 & 10 \\
\hline & polar white, glossy & 0918282599 & 10 \\
\hline & chrome, matt lacquered & *091828 2568 & 10 \\
\hline
\end{tabular}

Protection class IP44 only guaranteed for installation with sealing order no. 091853

IP44
- without sealing

■ for covering on socket outlets
BLANK PLATES


Blank plate
\begin{tabular}{|c|c|c|}
\hline brown, matt & 0945162501 & 10 \\
\hline anthracite, matt & 0945162505 & 10 \\
\hline grey, glossy & 0945162507 & 10 \\
\hline polar white, glossy & 0945162509 & 10 \\
\hline black, glossy & *09 45162510 & 10 \\
\hline chrome, matt lacquered & *0845162568 & 200 \\
\hline stainless steel, & *09 45162524 & 10 \\
\hline
\end{tabular}
lacquered

■ with supporting plate

Order no.
SURFACE-MOUNTED HOUSINGS
NEW


I on page T71
Dimensions (W x H x D) 59,5 x 59,5 x 41 mm
For suitable tube-entries and replacement for cable and duct entries refer to the dry surface-mounted range.
\(\square\) to built-on installation of devices
- suitable for mounting on flammable base surface
- with cable entry


I on page T71
\begin{tabular}{lcc}
\multicolumn{3}{l}{ Built-on installation housing 1gang high design } \\
\begin{tabular}{l} 
brown, glossy, \\
with cable clamp
\end{tabular} & 0911512511 & 10 \\
\begin{tabular}{l} 
anthracite, glossy, \\
with cable clamp
\end{tabular} & 0911512515 & 10 \\
\begin{tabular}{l} 
grey, glossy, \\
with cable clamp
\end{tabular} & 0911512517 & 10 \\
\begin{tabular}{l} 
polar white, glossy, \\
with cable clamp
\end{tabular} & 0911512519 & 10 \\
\hline
\end{tabular} h cable clamp

Dimensions (W x H x D) 59,5 x 59,5 x 41 mm
For suitable tube-entries and replacement for cable and duct entries refer to the dry surface-mounted range.

■ to built-on installation of devices
■ suitable for mounting on flammable base surface - with cable entry


I on page T71

Built-on installation housing 1gang flat design without cable clamp polar white, glossy, without cable clamp
anthracite, glossy, with cable clamp
polar white, glossy, with 091152255910
cable clamp
anthracite, glossy, with 2091152256510
cable clamps
polar white, glossy, with 091152256910
2 cable clamps
Dimensions (W x H x D) 59,5 x 59,5 x 16 mm
\(\square\) to built-on installation of switches and push-buttons
\(\square\) suitable for mounting on flammable base surface

ACCESSORIES
Distance rings


I on page T71
\begin{tabular}{lrl} 
Surface-mounted spacer ring & \\
brown, glossy & \(091825 \mathbf{2 5 1 1}\) & 10 \\
anthracite, glossy & \(091825 \mathbf{2 5 1 5}\) & 10 \\
grey, glossy & \(091825 \mathbf{2 5 0 6}\) & 10 \\
polar white, glossy & \(091825 \mathbf{2 5 1 2}\) & 10 \\
black, glossy & *09 1825 25 10 & 10 \\
chrome, matt lacquered & \(\mathbf{0 9 1 8 2 5 \mathbf { 2 5 } \mathbf { 6 8 }}\) & 10 \\
stainless steel, & *09 1825 25 24 & 10 \\
lacquered & &
\end{tabular}

Dimensions (W x H x D) \(59,5 \times 59,5 \times 10 \mathrm{~mm}\)
\(■\) for the reduction of the installation depth of the devices and surf.-mount. of switches and push-b.

\section*{Entries/connectors}


\section*{Cable and duct entry}
\begin{tabular}{lll} 
white & \(\mathbf{1 8 1 3}\) & 10 \\
polar white & \(\mathbf{1 8 1 3} \mathbf{0 9}\) & 10 \\
black & \(\mathbf{1 8 1 3} \mathbf{0 5}\) & 10
\end{tabular}

Also suitable for surface-mounted frames and housings from the flush-mounted ranges.
\(\square\) for wire or \(15 \times 15 \mathrm{~mm}\) cable duct
\begin{tabular}{lll}
\hline Tube entry & \\
polar white & \(\mathbf{1 8 1 7 0 9}\) & 10 \\
black & \(\mathbf{1 8 1 7 0 5}\) & 10
\end{tabular}

Distance from wall to centre of pipe 16 mm
Suitable ducts for surface-mounted installation can be purchased at www.fraenkische-elektro.de

Suitable for surface-mounted frames and housings of the flush-mounted range.
- for tubes with \(\varnothing 15.2\) mm (PG 9) and M 16
\(\square\) for tubes with coupling dia. 20.5 mm (PG 13.5) and M 20

\title{
Berker Integro Module inserts
}

\section*{Industrial design range Built-in system}

Tiny - but virtually indispensable. The round function elements of the module inserts give every unit its unmistakable character. With their minimal dimensions and shallow installation depths, they are extremely versatile. The incredible depth of the product range means you have an excellent variety of functions available, and thus the optimal solution in each case.
- Particularly suitable for use in mobile homes, kitchen furniture, electrical appliances, or for furniture construction and the field of sanitation
- Also satisfies special demands such as in boat and ship building and in laboratories
- Easy installation with no special tools needed
- Special solutions such as mounting on mirrors, on glass or IP44 applications
- NEW: USB charging sockets

Marked items are suitable for splash-protected flush-mounted IP44 installation when used in conjunction with appropriate seal and frame with IP44 printing.

\begin{tabular}{lr} 
Socket outlets & \(442-445\) \\
\hline Connecting devices 12 V & 445 \\
\hline Charging sockets & 446 \\
\hline TV/Audio/Video & \(446-447\) \\
\hline Data/Tele communications & \(447-448\) \\
\hline Switches & \(448-449\) \\
\hline Push-buttons & \(449-450\) \\
\hline Rotary dimmers & \(450-451\) \\
\hline Control units 1-10 V & 451 \\
\hline Wall boxes & \(451-452\) \\
\hline Covers IP44 & 453 \\
\hline
\end{tabular}

For contact protection box \(\varnothing 45 \mathrm{~mm}\) order
no. 091820
IP44 protection only guaranteed for installation with sealing order no. 091853 and frame with imprint
„IP44" order no. 09182825 ..
For contact protection box \(\varnothing 49 \mathrm{~mm}\) order no. 0918 83, 091887
For contact protection box 2gang order no. 0919150.
For contact protection box 3gang order no. 091933
Connection terminals IEC 60884-1
■ with screw terminals

Order no.


1 on page T71
SCHUKO socket outlet
brown, matt
anthracite, matt
grey, matt
polar white, matt
black, matt
brown matt enhanced *09418505
-
contact protection
IEC 60884-1
anthracite, matt, 094195250510
enhanced contact
protection IEC 60884-1
grey, matt, enhanced 094195250610
contact protection
IEC 60884-1
polar white, matt, 094195250210
enhanced contact
protection IEC 60884-1
black, matt, enhanced *094195 0510
contact protection
IEC 60884-1
\(16 \mathrm{~A}, 250 \mathrm{~V} \sim\)
-10

Order no.
Packing
unit
NEMA-socket outlets


I on page T71
Socket outlet with earth contact, USA/CANADA, NEMA 5-15 R
brown, matt *096252 2501
anthracite, matt 096252250510
grey, matt *0962522506 10
polar white, matt 096252250210
black, matt
\(15 \mathrm{~A}, 125 \mathrm{~V} \sim\)
fast-on terminal size \(6,3 \times 0,8 \mathrm{~mm}\)

For contact protection box \(\varnothing 45 \mathrm{~mm}\) order no. 091820
For contact protection box \(\varnothing 49 \mathrm{~mm}\) order no. 0918 83, 091887
For contact protection box 2 gang order no. 0919150.
For contact protection box 3gang order no. 091933
Equates to standard NEMA 5-15 R
- 2pole + earth
- with fast-on terminal connection
- protective earth conductor with screw connection
- insert, black

\section*{Australian socket outlets}


Socket outlet with earth contact, Australia 15 A
\begin{tabular}{|c|c|c|}
\hline brown, matt, insert black & 0962562501 & 10 \\
\hline anthracite, matt, insert black & 0962562505 & 10 \\
\hline grey, matt, insert black & 0962562506 & 10 \\
\hline polar white, matt, insert white & 0962562502 & 10 \\
\hline black, matt, insert black & * 09625605 & 10 \\
\hline
\end{tabular}
\(15 \mathrm{~A}, 250 \mathrm{~V} \sim\)

For contact protection box \(\varnothing 45 \mathrm{~mm}\) order no. 091820
For contact protection box \(\varnothing 49 \mathrm{~mm}\) order
no. 0918 83, 091887
For contact protection box 2gang order
no. 0919150 ..
For contact protection box 3gang order no. 091933
- 2pole + earth
- contact screws, cross-head, size PH2

■ with screw terminals
\begin{tabular}{|c|c|c|c|}
\hline & & Order no. & Packing unit \\
\hline \multicolumn{4}{|l|}{Danish socket outlets} \\
\hline \multirow[t]{5}{*}{NEW} & \multicolumn{3}{|l|}{Socket outlet with earth contact, Denmark} \\
\hline & brown, matt & 0962722501 & 10 \\
\hline & anthracite, matt & 0962722505 & 10 \\
\hline & grey, matt & 0962722506 & 10 \\
\hline & polar white, matt & 0962722502 & 10 \\
\hline \multirow[t]{3}{*}{I on page \(\mathrm{T}^{\text {P1 }}\)} & black, matt & *09627205 & 10 \\
\hline & \multicolumn{3}{|l|}{\(13 \mathrm{~A}, 250 \mathrm{~V} \sim\)} \\
\hline & \multicolumn{3}{|l|}{\begin{tabular}{l}
For contact protection box \(\varnothing 45 \mathrm{~mm}\) order no. 091820 \\
For contact protection box \(\varnothing 49 \mathrm{~mm}\) order no. 0918 83, 091887 \\
For contact protection box 2gang order no. 0919150 .. \\
For contact protection box 3gang order no. 091933
\end{tabular}} \\
\hline \multicolumn{4}{|l|}{Italian socket outlets} \\
\hline NEW & \multicolumn{3}{|l|}{Socket outlet with earth contact, Italy} \\
\hline & brown, matt & 0962532501 & 10 \\
\hline - & anthracite, matt & 0962532515 & 10 \\
\hline & grey, glossy & 0962532517 & 10 \\
\hline & polar white, glossy & 0962532509 & 10 \\
\hline \multirow[t]{5}{*}{I on page T71} & black, matt & *09 625315 & 10 \\
\hline & \multicolumn{3}{|l|}{\(16 \mathrm{~A}, 250 \mathrm{~V} \sim\)} \\
\hline & \multicolumn{3}{|l|}{Not suitable for fixing ring.} \\
\hline & \multicolumn{3}{|l|}{\begin{tabular}{l}
For contact protection box \(\varnothing 49 \mathrm{~mm}\) order no. 0918 83, 091887 \\
For contact protection box 2gang order no. 0919150. . \\
For contact protection box 3gang order no. 091933
\end{tabular}} \\
\hline & \begin{tabular}{l}
- 2pole + earth \\
- enhanced conta \\
- insert white \\
■ with screw term
\end{tabular} & rotection IEC 6088 & \\
\hline \multicolumn{4}{|l|}{Swiss socket outlets} \\
\hline - & \multicolumn{3}{|l|}{Socket outlet with earth contact, Switzerland, type 13} \\
\hline & brown, matt & 0962492501 & 10 \\
\hline & anthracite, matt & 0962492505 & 10 \\
\hline & grey, matt & 0962492506 & 10 \\
\hline & polar white, matt & 0962492502 & 10 \\
\hline \multirow[t]{6}{*}{I on page T71} & black, matt & 09624905 & 10 \\
\hline & \multicolumn{3}{|l|}{\(10 \mathrm{~A}, 250 \mathrm{~V}\) ~} \\
\hline & \multicolumn{3}{|l|}{Not suitable for fixing ring.} \\
\hline & \multicolumn{3}{|l|}{\begin{tabular}{l}
For contact protection box \(\varnothing 49 \mathrm{~mm}\) order no. 0918 83, 091887 \\
For contact protection box 2gang order no. 0919150. \\
For contact protection box 3gang order no. 091933
\end{tabular}} \\
\hline & \multicolumn{3}{|l|}{Connection terminals IEC 60884-1} \\
\hline & \begin{tabular}{l}
- 2pole + earth \\
■ with screw term
\end{tabular} &  & \\
\hline
\end{tabular}

Order no.
Packing
unit


Socket outlet with earth contact, Switzerland, type 23
\begin{tabular}{|c|c|c|}
\hline brown, matt & *09 62592501 & 10 \\
\hline anthracite, matt & *0962592505 & 10 \\
\hline grey, matt & *096259 2506 & 10 \\
\hline polar white, matt & *09 62592502 & 10 \\
\hline black, matt & *0962592503 & 10 \\
\hline
\end{tabular}
\(16 \mathrm{~A}, 250 \mathrm{~V}\)
Not suitable for fixing ring.
For contact protection box \(\varnothing 49 \mathrm{~mm}\) order no. 0918 83, 091887
For contact protection box 2gang order no. 0919150.
For contact protection box 3gang order no. 091933
Connection terminals IEC 60884-1
2pole + earth
- with screw terminals

\section*{British Standard socket outlets}

NEW

F


I on page T71

Socket outlet with earth contact, British Standard
brown, matt 096262250110 anthracite, matt 096262250510 grey, matt grey, matt 096262250610
polar white, matt 096262250210
black, matt
* 09626205

\section*{\(13 \mathrm{~A}, 250 \mathrm{~V} \sim\)}

For contact protection box \(\varnothing 45 \mathrm{~mm}\) order no. 091820
For contact protection box \(\varnothing 49 \mathrm{~mm}\) order no. 0918 83, 091887
For contact protection box 2gang order
no. 0919150.
For contact protection box 3gang order no. 091933
Standard BS 1363
2pole + earth
- enhanced contact protection
- with screw terminals

Order no.

\section*{Socket outlets with earth pin}


Socket outlet with earth pin
brown, matt 0961852501
anthracite, matt \(0961852505 \quad 10\)
grey, matt 0961852506
polar white, matt \(0961852502 \quad 10\)
black, matt *09618505 10
brown, matt, enhanced \(0961952501 \quad 10\)
contact protection
IEC 60884-1
anthracite, matt, \(0961952505 \quad 10\)
enhanced contact protection IEC 60884-1
grey, matt, enhanced 096195250610
contact protection
IEC 60884-1
polar white, matt, \(0961952502 \quad 10\)
enhanced contact
protection IEC 60884-1
black, matt, enhanced *09619505 10
contact protection
IEC 60884-1
16 A, 250 V~

For contact protection box \(\varnothing 45 \mathrm{~mm}\) order no. 091820
IP44 protection only guaranteed for installation with sealing order no. 091853 and frame with imprint „IP44" order no. 09182825 68, 091828259.
For contact protection box \(\varnothing 49 \mathrm{~mm}\) order
no. 0918 83, 091887
For contact protection box 2gang order
no. 0919150.
For contact protection box 3gang order no. 091933
Connection terminals IEC 60884-1
- 2pole + earth
- with screw terminals

Order no.
Socket outlets without earth contact
NEW
Socket outlet without earth contact
br 0961842501 anthracite, matt 0961842505 grey, matt
polar white, matt
black, matt


I on page T71
brown, matt, enhanced
contact protection
IEC 60884-1
anthracite, matt,
0961942505
enhanced contact protection IEC 60884-1
grey, matt, enhanced \(0961942506 \quad 10\)
contact protection
IEC 60884-1
polar white, matt,
0961942502
enhanced contact
protection IEC 60884-1
black, matt, enhanced
*09619405
10
contact protection IEC
60884-1
16 A, 250 V~
Mirror depth \(14,5 \mathrm{~mm}\)

For contact protection box \(\varnothing 45 \mathrm{~mm}\) order no. 091820
For contact protection box \(\varnothing 49 \mathrm{~mm}\) order no. 0918 83, 091887
For contact protection box 2 gang order no. \(0919150 .\).
For contact protection box 3gang order no. 091933
Connection terminals IEC 60884-1
- 2pole
- with screw terminals

\section*{Euro-American Standard socket outlets}

Socket outlet without earth contact "Euro-American Standard"
anthracite, matt \(0962572505 \quad 10\)
grey, matt 0962572506
\(0962572502 \quad 10\)
polar white, matt
*0962572503
\(10 \mathrm{~A}, 250 \mathrm{~V} \sim\)
Not suitable for SCHUKO connector according to DIN 49441.

For contact protection box \(\varnothing 45 \mathrm{~mm}\) order no. 0918 20
For contact protection box \(\varnothing 49 \mathrm{~mm}\) order no. 0918
83, 091887
For contact protection box 2gang order no. 091915 0..

For contact protection box 3gang order no. 091933
Connection terminals IEC 60884-1
Standard GB 1002
■ enhanced contact protection IEC 60884-1
- 2pole
- with screw terminals
- can be used for e.g. razor socket outlet

Order no.

\section*{CONNECTING DEVICES 12 V}

12 V socket outlets
NEW Socket outlet 12 V
brown, matt 094517250110
anthracite, matt 094517250510
grey, glossy 0945172507
polar white, glossy 094517250910
black, matt *09451705 10
12-24V
Rated current max. 16 A;
fast-on terminal size \(6,3 \times 0,8 \mathrm{~mm}\)
Note:
use of 12 V connector (order no. 4637) observe max. rated current of 8 A .
For connector 12 V order no. 4637
For contact protection box \(\varnothing 45 \mathrm{~mm}\) order
no. 091820
For contact protection box \(\varnothing 49 \mathrm{~mm}\) order
no. 0918 83, 091887
For contact protection box 2gang order no. 0919150 ..
For contact protection box 3gang order no. 091933
- with fast-on terminal connection
NEW \begin{tabular}{lll} 
Power socket outlet 12 V \\
brown, matt & \(\boldsymbol{* 0 8 4 5 7 1 2 5 0 1}\) & 200 \\
anthracite, matt & \(\boldsymbol{* 0 8 4 5 7 1 2 5 0 5}\) & 200 \\
grey, glossy & \(\boldsymbol{* 0 8 4 5 7 1 2 5 0 7}\) & 200 \\
polar white, glossy & \(\boldsymbol{* 0 8 4 5 7 1 2 5 0 9}\) & 200 \\
black, matt & \(\boldsymbol{* 0 8 4 5 7 1 2 5 0 3}\) & 200
\end{tabular}

12-24 V, max. 20 A at \(2.5 \mathrm{~mm}^{2}\), max. 15 A at \(1.5 \mathrm{~mm}^{2}\)

Not suitable for wall boxes.
- with fast-on terminal connection

\section*{Motor vehicle connecting devices}

Plug 12 V
black, matt 4637
12-24 V, max. 8 A
For 12 V socket outlet order no. 09451725 .., 09451705
- with solder connection

Order no.

CHARGING SOCKETS
USB charging sockets


230 V USB charging socket
anthracite, matt *0926002505 1
polar white, matt *0926002509 1
\(100-240 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}, 5 \mathrm{~V}=(+/-5 \%)\)
Power consumption (standby) max. 100 mW ;
Conductor cross-section max. \(2,5 \mathrm{~mm}^{2}\)
No data transmission possible!
For contact protection box \(\varnothing 49 \mathrm{~mm}\) order no. 091883
For contact protection box 2gang order
no. 0919150 ..
For contact protection box 3gang order no. 091933

■ with 2 USB sockets type A
\(\square\) for charging mobile end devices via USB cable
\(\square\) short-circuit and overload proof (electronic fuse)
■ with screw terminals


Aerial connector box TV
brown, matt,
with solder connection anthracite, matt, 094511251110
with solder connection grey, matt,

094511251510
with solder connection
polar white, matt, with solder connection
black, matt, with solder *0945111510
connection
brown, matt, with connection in F system anthracite, matt, with connection in F system grey, matt, with connection in F system
polar white, matt, with
094581250110

094581250510
connection in F system
black, matt, with connec- *09 4581250310
tion in F system

DIN 45325


Aerial connector box SAT
brown, matt anthracite, matt grey, matt polar white, matt black, matt 0945812506 10
\(0945112516 \quad 10\)
\(0945112512 \quad 10\)

polar white/red 1989

1
Conductor diameter 0,5-0,65 mm (AWG 24-22);
Conductor cross-section 0,2-0,325 mm \({ }^{2}\)
(AWG 24-22);
Module dimensions (W x H x D) \(15 \times 18 \times 35 \mathrm{~mm}\)
I on page T63
For central plate order no. 1427 ..
For supporting plate order no. 094559 ..

■ with 2 Cinch sockets and module carriers
■ with tool free cutting terminals


Cinch module video
polar white/yellow 1992
Conductor diameter 0,5-0,65 mm (AWG 24-22);
Conductor cross-section 0,2-0,325 mm² (AWG 24-22);
Dimensions (W x H x D) \(15 \times 18 \times 35 \mathrm{~mm}\)
1 on page T63
For central plate order no. 1427 ..
For supporting plate order no. 094559 ..

■ with cinch socket and module carrier
- with tool free cutting terminals

Order no.
Order no.

\section*{VGA module}
polar white/black 19941
Dimensions (W x H x D) \(31 \times 18 \times 35 \mathrm{~mm}\); Conductor cross-section max. \(1,5 \mathrm{~mm}^{2}\)

I on page T63 For central plate order no. 1427 ..
For supporting plate order no. 094559 ..
with a 15pole D-subminiature socket
- SVGA compatible
- occupies 2 MINI-COM module spaces in the cover
- with screw-in lift terminals


S-Video module
polar white/black 19931
Conductor diameter 0,5-0,65 mm (AWG 24-22);
Conductor cross-section 0,2-0,325 mm
(AWG 24-22);
Dimensions (W x H x D) \(15 \times 18 \times 35 \mathrm{~mm}\)
1 on page T63
For central plate order no. 1427.
For supporting plate order no. 094559 ..
\(\square\) with S-Video and module carrier
- with tool free cutting terminals


\section*{Blank module}
polar white, 1gang 1990
1
Dimensions (W x H x D) \(15 \times 18 \times 35 \mathrm{~mm}\)

For central plate order no. 1427 ..
For supporting plate order no. 094559 ..

\section*{DATA COMMUNIGATIONS/TELLECOMMUNICATIONS}

Supporting plates for modular jacks


Supporting plate for 2 MINI-COM modules
anthracite, glossy \(0945592505 \quad 10\)
grey, glossy \(0945592507 \quad 10\)
polar white, glossy \(\quad 0945592509 \quad 10\)
black, glossy *09 45590510

Not suitable for hinged cover.
For mini jack order no. 1980, 1984, 1985
For cinch module set order no. 1989
For blank module order no. 1990
For video cinch module order no. 1992
For S-Video module order no. 1993
For VGA module order no. 1994

\section*{Modules:}

Panduit
■ for Mini-Com jacks cat.3, cat.5e, cat.6, cat. 6 10Gig
\(\square\) for Mini-Com fibre-optic modules
- for Mini-Com BNC connector modules

■ for Mini-Com 3.5 mm stereo connection/coupling modules
\(\square\) for mini-com speaker wire/banana plug modules
- for Mini-Com F-plug coupling modules
- for Mini-Com Cinch connection/coupling modules
\(\square\) for Mini-Com S-Video connection/coupling modules
■ for Mini-Com D-Subminiature connectors 15pole
- for Mini-Com dummy modules 1gang

■ with \(30^{\circ}\) oblique outlet
\begin{tabular}{|c|c|c|c|}
\hline NEW & \multicolumn{3}{|l|}{Supporting plate for AMP modular jacks 1gang} \\
\hline & anthracite, glossy & 0945572505 & 10 \\
\hline & grey, glossy & 0945572507 & 10 \\
\hline & polar white, glossy & 0945572509 & 10 \\
\hline & black, glossy & *09 455705 & 10 \\
\hline
\end{tabular}

Indexing dimension (W x H) approx. \(14,9 \times 20,7 \mathrm{~mm}\)
Not suitable for hinged cover.

MT-RJ jack:
AMP;
Intracom;
Telena;
Modular jacks:
Brand-Rex;
CobiNet;
EFB Electronic;
Schumann;
Standard 110 Connect jack:
AMP;
SL series toolless jack:
AMP;
EMT modular jack:
AMP
- for AMP modular jacks series 110 Connect cat.3, cat.5, cat.5e and cat. 6

\begin{tabular}{lrr} 
Supporting plate for \(\mathbf{2}\) BTR-/E-DAT modules \\
black, glossy & \(\boldsymbol{* 0 8 4 5 5 8 2 5 1 0}\) & 100 \\
anthracite, glossy & \(\boldsymbol{* 0 8 4 5 5 8 2 5 0 5}\) & 100 \\
grey, glossy & \(\boldsymbol{* 0 8 4 5 5 8 2 5 0 7}\) & 100 \\
polar white, glossy & \(\boldsymbol{* 0 8 4 5 5 8 2 5 0 9}\) & 100
\end{tabular}

Not suitable for hinged cover.

Modules:
BTR NETCOM
- for 130898-00-I BTR blank module

■ for 130898-01-I BTR coax module F/F
■ for 130898-02-I BTR coax module F/IEC socket
■ for 130898-03-I BTR coax module F/IEC connector
■ for 130908-I BTR UAE module Cat.5e 8(8)
- for 130909-I BTR UAE module Cat. 6 8(8)

■ for 130910-I BTR E-Dat module Cat.6a 8(8)
- for 1309A0-I BTR E-Dat module coupling 8(8) Cat. 6
- for 15091001-I BTR Op-Dat module ST
- for 15091070-I BTR Op-Dat module LC

■ for 15091071-I BTR Op-Dat module LC
- for 185700 Dätwyler Unilan socket module MS 1/8 Cat. 6
- for 185750 Dätwyler Unilan socket module MU 1/8 Cat. 6
- for 417446 Dätwyler Unilan RJ45 feed-through coupling
■ with \(25^{\circ}\) oblique outlet

\begin{tabular}{|c|c|c|c|}
\hline & & Order no. & Packing unit \\
\hline \multicolumn{4}{|l|}{SWITCHES} \\
\hline \multicolumn{4}{|l|}{Rocker switch Integro Flow} \\
\hline \multirow[t]{3}{*}{} & Rocker switch & & \\
\hline & brown, matt, change-over & 0936562501 & 10 \\
\hline & anthracite, matt, change-over & 0936562505 & 10 \\
\hline \multirow[t]{13}{*}{I on page \(\mathrm{T}^{\text {P1 }}\)} & grey, glossy, change-over & 0936562507 & 10 \\
\hline & polar white, glossy, change-over & 0936562509 & 10 \\
\hline & black, glossy, change-over & *093656 2510 & 10 \\
\hline & chrome, matt lacquered, change-over & *093656 2568 & 10 \\
\hline & stainless steel, lacquered, change-over & * 0936562524 & 10 \\
\hline & brown, matt, intermediate & 0936572501 & 10 \\
\hline & anthracite, matt, intermediate & 0936572505 & 10 \\
\hline & grey, glossy, intermediate & 0936572507 & 10 \\
\hline & polar white, glossy, intermediate & 0936572509 & 10 \\
\hline & black, glossy, intermediate & * 0936572510 & 10 \\
\hline & chrome, matt lacquered, intermediate & *0936572568 & 10 \\
\hline & stainless steel, lacquered, intermediate & * 0936572524 & 10 \\
\hline & \(16 \mathrm{AX}, 250 \mathrm{~V}\) & & \\
\hline & \multicolumn{3}{|l|}{\begin{tabular}{l}
For contact protection box \(\boldsymbol{\varnothing} 45 \mathrm{~mm}\) order no. 091820 \\
For contact protection box flat \(\varnothing 45 \mathrm{~mm}\) order no. 09182001 \\
IP44 protection only guaranteed for installation with sealing order no. 091853 and frame with imprint „IP44" order no. 091827 .. \\
For contact protection box \(\varnothing 49 \mathrm{~mm}\) order no. 0918 83, 091887 \\
For contact protection box 2gang order no. 0919150 .. \\
For contact protection box 3gang order no. 091933
\end{tabular}} \\
\hline & \multicolumn{3}{|l|}{- with screw terminals} \\
\hline
\end{tabular}

Order no.


I on page T71
Rocker switch
\begin{tabular}{|c|c|c|}
\hline brown, matt, 2pole Off & 0936522501 & 10 \\
\hline anthracite, matt, 2pole Off & 0936522505 & 10 \\
\hline grey, glossy, 2pole Off & 0936522507 & 10 \\
\hline polar white, glossy, 2pole Off & 0936522509 & 10 \\
\hline black, glossy, 2pole Off & *09 36522510 & 10 \\
\hline chrome, matt lacquered, 2pole Off & *09 36522568 & 10 \\
\hline stainless steel, & *093652 2524 & 10 \\
\hline
\end{tabular} lacquered, 2pole Off

16 AX, 250 V~
For switching of 16 A socket outlets, for example.
For contact protection box flat \(\varnothing 45 \mathrm{~mm}\) order no. 09182001
IP44 protection only guaranteed for installation with sealing order no. 091853 and frame with imprint „IP44" order no. 091827 ..
For contact protection box \(\varnothing 49 \mathrm{~mm}\) order no. 0918 83, 091887
For contact protection box 2gang order no. 0919150 ..
For contact protection box 3gang order no. 091933

■ with imprint „0"
■ with screw terminals


I on page T71
Rocker control switch with red lens brown, matt, 2pole Off 0937522501
anthracite, matt, 2pole 093752250510 Off
grey, glossy, 2pole Off \(0937522507 \quad 10\)
polar white, glossy, \(0937522509 \quad 10\) 2pole Off
black, glossy, 2pole Off *09 37522510
chrome, matt lacquered, 0937522568
stainless steel, *093752 2524
lacquered, 2pole Off
16 AX, 250 V~
Neon lamp current \(0,9 \mathrm{~mA}\)

For contact protection box \(\varnothing 45 \mathrm{~mm}\) order no. 091820
For contact protection box flat \(\varnothing 45 \mathrm{~mm}\) order no. 09182001
IP44 protection only guaranteed for installation with sealing order no. 091853 and frame with imprint „IP44" order no. 091827 ..
For contact protection box \(\varnothing 49 \mathrm{~mm}\) order no. 0918 83, 091887
For contact protection box 2gang order no. 0919150 ..
For contact protection box 3gang order no. 091933
■ with imprint „0"
- with integral neon lamp
\(\square\) for illumination and monitoring circuit
- with screw terminals
\begin{tabular}{|c|c|c|c|}
\hline \multicolumn{4}{|l|}{Rocker switch Integro Flow} \\
\hline \multirow[t]{13}{*}{} & \multicolumn{3}{|l|}{Rockers switch} \\
\hline & brown, matt, series & 0936552501 & 10 \\
\hline & anthracite, matt, series & 0936552505 & 10 \\
\hline & grey, glossy, series & 0936552507 & 10 \\
\hline & polar white, glossy, series & 0936552509 & 10 \\
\hline & black, glossy, series & *09 36552510 & 10 \\
\hline & chrome, matt lacquered, series & \[
\text { *09 } 36552568
\] & 10 \\
\hline & stainless steel, lacquered, series & *093655 2524 & 10 \\
\hline & \(16 \mathrm{AX}, 250 \mathrm{~V} \sim\) & & \\
\hline & \multicolumn{3}{|l|}{\begin{tabular}{l}
For contact protection box \(\varnothing 45 \mathrm{~mm}\) order no. 091820 \\
For contact protection box flat Ø 45 mm order no. 09182001
\end{tabular}} \\
\hline & \multicolumn{3}{|l|}{For contact protection box \(\varnothing 49 \mathrm{~mm}\) order no. 0918 83, 091887} \\
\hline & \multicolumn{3}{|l|}{For contact protection box 2gang order no. 0919150 ..} \\
\hline & \multicolumn{3}{|l|}{For contact protection box 3gang order no. 091933} \\
\hline
\end{tabular}

\section*{PUSH-BUTTONS}

Rocker button Integro Flow


Rocker push-button
\begin{tabular}{|c|c|c|}
\hline brown, matt, NO contact & 0936712501 & 10 \\
\hline anthracite, matt, NO contact & 0936712505 & 10 \\
\hline grey, glossy, NO contact & 0936712507 & 10 \\
\hline polar white, glossy, NO contact & 0936712509 & 10 \\
\hline black, glossy, NO contact & *093671 2510 & 10 \\
\hline chrome, matt lacquered, NO contact & *09 36712568 & 10 \\
\hline stainless steel, lacquered, NO contact & *09367125 24 & 10 \\
\hline
\end{tabular}
\(10 \mathrm{~A}, 250 \mathrm{~V} \sim\)

For contact protection box \(\varnothing 45 \mathrm{~mm}\) order
no. 091820
For contact protection box flat \(\varnothing 45 \mathrm{~mm}\) order no. 09182001
IP44 protection only guaranteed for installation with sealing order no. 091853 and frame with imprint „IP44" order no. 091827 ..
For contact protection box \(\varnothing 49 \mathrm{~mm}\) order no. 0918 83, 091887
For contact protection box 2gang order
no. \(0919150 .\).
For contact protection box 3gang order no. 091933
- with screw terminals

Order no.
Packing
unit


I on page T71
Rocker push-button with lighting and red lens
brown, matt, NO contact \(0937722501 \quad 10\)
anthracite, matt, 093772250510
NO contact
grey, glossy, NO contact \(0937722507 \quad 10\)
polar white, glossy, 093772250910 NO contact

10 A, 250 V~
Neon lamp current \(0,9 \mathrm{~mA}\)
If several neon lamp units are used the lamp current may result in malfunctioning of the relay/pulse relay.
Remedy: Insert a neutral conductor or connect a capacitor \(230 \mathrm{~V}, 1 \mu \mathrm{~F}\) per 10 mA neon lamp current in parallel with the coil.
For contact protection box \(\varnothing \mathbf{4 5 m}\) order no. 091820
For contact protection box flat \(\varnothing 45 \mathrm{~mm}\) order no. 09182001
IP44 protection only guaranteed for installation with sealing order no. 091853 and frame with imprint „IP44" order no. 091827 ..
For contact protection box \(\varnothing 49 \mathrm{~mm}\) order no. 0918 83, 091887
For contact protection box 2gang order no. 0919150. .
For contact protection box 3gang order no. 091933
- with integral neon lamp
- for illumination and monitoring circuit
- with screw terminals

Rocker button Integro Flow


Rockers push-button
brown, matt, 2 NO 0936752501
contacts, common input terminal
anthracite, matt, 2 NO
0936752505
contacts, common input terminal
grey, glossy, 2 NO \(0936752507 \quad 10\)
contacts, common input
terminal
polar white, glossy, 2 NO 093675250910
contacts, common input
terminal
black, glossy, 2 NO *09 3675251010
contacts, common input
terminal
chrome, matt lacquered, *093675 256810
2 NO contacts, common
input terminal
stainless steel, *093675 2524
10
lacquered, 2 NO
contacts, common input
terminal
\(10 \mathrm{~A}, 250 \mathrm{~V} \sim\)
For contact protection box \(\varnothing 45 \mathrm{~mm}\) order
no. 091820
For contact protection box flat \(\varnothing 45 \mathrm{~mm}\) order
no. 09182001
For contact protection box \(\varnothing 49 \mathrm{~mm}\) order
no. 0918 83, 091887
For contact protection box 2gang order
no. 0919150 ..
For contact protection box 3gang order no. 091933
- with screw terminals

Order no.

\section*{PUSH-BUTTONS FOR SHUTTERS}

Blind rocker button Integro Flow


Rockers push-button for blinds with imprinted arrow symbol
brown, matt, 1pole *0936532501 10
anthracite, matt, 1pole *0936532505 10
grey, glossy, 1pole *093653 \(2507 \quad 10\)
polar white, glossy, *093653 \(2509 \quad 10\)
1pole
black, glossy, 1pole *093653 \(2510 \quad 10\)
chrome, matt lacquered, *09 3653256810
1pole
stainless steel, *0936532524 10 lacquered, 1pole

Follow the motor manufacturers` instructions!
For contact protection box \(\varnothing 45 \mathrm{~mm}\) order no. 091820
For contact protection box flat Ø 45 mm order no. 09182001
For contact protection box \(\varnothing 49 \mathrm{~mm}\) order
no. 0918 83, 091887
For contact protection box 2gang order no. 0919150 .
For contact protection box 3gang order no. 091933
- with electrical interlocking to prevent mutual activation
■ with screw terminals

\section*{ROTARY DIMMERS}

Rotary dimmer Integro Flow
\begin{tabular}{|c|c|c|c|}
\hline \multirow[t]{6}{*}{NEW \({ }_{2}=\ldots\) ?} & \multicolumn{3}{|l|}{Rotary dimmer \(12 \mathrm{~V}=\) with setting knob} \\
\hline & brown, matt & 0928762501 & 1 \\
\hline & anthracite, matt & 0928762505 & 1 \\
\hline & grey, glossy & 0928762507 & 1 \\
\hline & polar white, glossy & 0928762509 & 1 \\
\hline & black, glossy & *0928762510 & 1 \\
\hline & chrome, matt lacquered & *09 28762568 & 1 \\
\hline & stainless steel, & *09287625 24 & 1 \\
\hline
\end{tabular}
lacquered
\(12 \mathrm{~V}=\)
12 V incandescent and halogen lamps \(10-60 \mathrm{~W}\);
Quiescent current 3 mA ;
Axial dimension diameter 4 mm ;
Installation depth 33 mm
Not suitable for Berker Integro wall boxes, built-on installation housings and clamp rings.

■ with soft-lock
- with on/off pressure switch

■ with pulse width control
■ short-circuit and overload proof (electronic fuse)
■ with screw terminals

Order no．
Rotary dimmer Integro Flow


I on page T 71
Rotary dimmer with setting knob and frame brown，matt 0928712571 anthracite，matt 0928712575 1 grey，glossy 0928712577 polar white，glossy 0928712579

230 V～， 50 Hz
230 V incandescent and halogen lamps 60－400 W； LV power boosters built－in max．10；
Axial dimension diameter 4 mm
Not suitable for Berker Integro wall boxes，built－on installation housings and clamp rings．

with change－over pressure switch
\(\square\) short－circuit and overload proof（fine－wire fuse）
\(\square\) with spare fuse
－phase cut－on
with screw terminals

\section*{CONTROL UNTS 1－10 V}

1－10 V control units Integro Flow


Rotary potentiometer 1－10 V with setting knob and frame
brown，matt 0928912501
anthracite，matt 092891250510
grey，glossy
polar white，glossy
0928912506
0928912509
polar white，glossy
230 V～，50／60 Hz
Switching current 6 A；
Control current 50 mA ；
Installation depth 22 mm ；
Axial dimension diameter 4 mm
In case of excessive making currents use making current limiters order no． 0185.

Ensure same illumination，use only electronic ballasts and fluorescent lamps from the same manufacturers．

Possible to change fuse without removing cover．
When using of LV halogen lamps we recommend Berker Tronic transformer with 1－10 V interface order no． 2977.

Not suitable for Berker Integro wall boxes，built－on installation housings and clamp rings．

Interface to DIN EN 60928
\(\square\) with on／off pressure switch
\(\square\) for switching and controlling electronic ballasts and Tronic transformers with 1－10 V interface
■ e．g．for fluorescent lamps and LV halogen lamps
－basic brightness programmable
\(\square\) short－circuit and overload proof（fine－wire fuse）
\(\square\) with spare fuse
－with screw terminals

Order no．
Packing
unit
WALL BOXES
Contact protection boxes


Wall box，flat，\(\varnothing 45 \mathrm{~mm}\)
grey，with cable clamp 09182001
200
Installation depth 22 mm

I on page T71 Flame resistant according to VDE 0606－1
淢 \(\sqrt[H]{ }\)
■ only for switches and push－buttons
\(\square\) with cable entry


\section*{Wall box \(\varnothing 45 \mathrm{~mm}\)}
grey，with cable clamp 091820200
Installation depth 35，5 mm

I on page T71 Flame resistant according to VDE 0606－1
雚 \(\sqrt{6}\)
\(\square\) for switches and socket outlets
■ with 4 cable entries
■ 3 knock out openings


Wall box \(\varnothing 49\) mm
grey，with 1x internal 091887200 double cable clamp on side
Installation depth 38 mm
I on page T71
Flame resistant according to VDE 0606－1
者 \(\sqrt{6}\)
■ with 2 cable entries


Contact protection box deep \(\varnothing 49 \mathrm{~mm}\) grey，with 1 external 091883 200
double cable clamp
Installation depth 45，5 mm

I on page T71
Flame resistant according to VDE 0606－1
㬟
－with 2 cable entries on backside
■ 1 knock out opening


\section*{Wall box for clamp fastening Ø 58 mm}
grey, with 1x internal 081837200
cable clamp
Installation depth 35 mm

Flame resistant according to VDE 0606-1
䓪 \(\sqrt[H]{ }\)

\section*{Installation instructions of IP44 covers}


\section*{COVERS IP44}

Sealings

\section*{Sealing}
black
091853
10

Not for switches/push-buttons with split rocker!
- For rocker switches/rocker push-buttons order no.

093652 .., 093656 .., 093657 .., 093671 .., 093752 .., 093772 .
For socket outlets order no. 084185 .., 094185 .., 094195 .., 094778 .., 094779 ..
For socket outlets with earth pin order no. 096185 .., 096195 .

IP44
■ for rocker switches/rocker push-buttons
\(\square\) for SCHUKO socket outlets and socket outlets with earth pin

\title{
Splash-protected Flush-mounted IP44
}

\section*{Splash-protected range Flush-mounted system}

The splash-protected flush-mounted range from Berker is particularly suitable for use in swimming pools, garages, kitchens and service areas, laboratories and in outdoor areas (e.g. balconies, terraces)
- High-impact thermoplastic material
- Frames and covers to match the inserts for standard and surface ranges (not including key switches)
- Available surfaces: glossy in white, polar white, brown

It must be ensured that the sealing lies flush.

\begin{tabular}{lr} 
Frames & 457 \\
\hline Socket outlets & \(457-458\) \\
\hline Covers switches/Push-buttons & \(458-460\) \\
\hline Switches/Push-buttons & 460 \\
\hline Pilot lamps & 460 \\
\hline BLC Berker Light Control & \(461-462\) \\
\hline Controllers & 463 \\
\hline Intermediate rings & 463 \\
\hline Signaling and command units & 463 \\
\hline TV/Audio/Video & \(463-464\) \\
\hline Data/Tele communications & 464 \\
\hline
\end{tabular}

\section*{Berker Q. 1}


IP44 protection can be ensured only by using the relevant sealing set.

\section*{Berker K. 1}


Berker K. 1 from page 192
IP44 protection can be ensured only by using the relevant sealing set.

\section*{Berker K. 5}


IP44 protection can be ensured only by using the relevant sealing set.

\section*{Berker Arsys IP44}


IP44 protection can be ensured only by using the relevant sealing set.

Order no.

unit
Installation intructions for flush-mounted splash protected IP44


\section*{FRAMES}

1) on page T68

Use only in conjunction with sealing flange order no. 1884!
\(\square\) for vertical and horizontal mounting

1) on page T 68
\begin{tabular}{lc}
\begin{tabular}{l} 
Frame with sealing \\
polar white, glossy, \\
1gang
\end{tabular} & 132809 \\
\begin{tabular}{l} 
polar white, glossy, \\
2gang \\
polar white, glossy, \\
3gang
\end{tabular} & 132909 \\
\hline
\end{tabular}

Use only in conjunction with sealing flange order no. 1884!

■ for vertical and horizontal mounting

1) on page T68
\begin{tabular}{lrr} 
Frame with sealing & & \\
brown, glossy, 1gang & \(\mathbf{1 3 2 8 0 1}\) & 10 \\
brown, glossy, 2gang & \(\mathbf{1 3 2 9} \mathbf{0 1}\) & 2 \\
brown, glossy, 3gang & \(\mathbf{1 3 3 0} 01\) & 2 \\
& \\
Use only in conjunction with sealing flange order \\
no. 1884!
\end{tabular}

■ for vertical and horizontal mounting

\section*{Accessories}


\section*{Sealing flange for all splash-protected flush-mounted devices}
grey
1884
10

The sealing flange must be inserted between the supporting plate and the wall!

SOCKET OUTLETS
SCHUKO-socket outlets


I on page T6

\section*{SCHUKO socket outlet with hinged cover}
white, glossy 471510
polar white, glossy 47150910
brown, glossy 4715010
white, glossy, enhanced 471610
contact protection IEC
60884-1
polar white, glossy, 471609
enhanced contact
protection IEC 60884-1
brown, glossy, enhanced 47160110
contact protection IEC
60884-1
\(16 \mathrm{~A}, 250 \mathrm{~V} \sim\)

Connection terminals IEC 60884-1
■ with imprint
- with plug-in terminals


I on page T6
SCHUKO socket outlet with hinged cover and frame
\begin{tabular}{lll} 
white, glossy & \(\mathbf{4 7 1 8}\) & 10 \\
polar white, glossy & \(\mathbf{4 7 1 8 0 9}\) & 10
\end{tabular}
brown glossy
10
16 A, 250 V~

Connection terminals IEC 60884-1
- with imprint
\(\square\) with sealing flange
with plug-in terminals


SCHUKO socket outlet with cover plate and hinged cover
\begin{tabular}{lll} 
polar white, glossy & \(\mathbf{4 2 1 1 0 9}\) & 1 \\
grey, glossy & \(\mathbf{4 2 1 1}\) & 1
\end{tabular}
grey, glossy 4211
\(16 \mathrm{~A}, 250 \mathrm{~V} \sim\)
I on page T6
Connection terminals IEC 60884-1
\(\square\) with sealing cup
■ with flush-mounted box
- for single mounting

■ without spreader claws
- with screw terminals


1 on page T6
SCHUKO socket outlet with hinged cover and labelling field
\begin{tabular}{lll} 
white, glossy & \(\mathbf{4 7 1 9}\) & 10 \\
polar white, glossy & \(\mathbf{4 7 1 9} 09\) & 10 \\
brown, glossy & \(\mathbf{4 7 1 9} 01\) & 10
\end{tabular}

16 A, 250 V10
\(16 \mathrm{~A}, 250 \mathrm{~V} \sim\)
Labelling field height arranged for 9 mm P-touch
strips.

Connection terminals IEC 60884-1
- with imprint
- with plug-in terminals

Order no.
Packing
unit


I on page T6 glossy, with differing closures brown, glossy, with differing closures
\(16 \mathrm{~A}, 250 \mathrm{~V} \sim\)
Spare keys and other closures (max. 24) on request.

Connection terminals IEC 60884-1
- with imprint

■ e. g. for washing machine
■ with 2 keys
■ with plug-in terminals


I on page T6

\section*{SCHUKO socket outlet with cover plate, hinged cover and lock}
polar white, glossy, 4212091 with differing closures grey, glossy, 4212 1
with differing closures
\(16 \mathrm{~A}, 250 \mathrm{~V} \sim\)

Spare keys and other closures (max. 24) on request.

Connection terminals IEC 60884-1
■ e. g. for washing machine
- with sealing cup
- with flush-mounted box
- for single mounting

■ with 2 keys
- without spreader claws
- with screw terminals

\section*{NEMA socket outlets}


\section*{Socket outlet with earth contact, USA/}

CANADA, NEMA 5-15 R with hinged cover
white, glossy 4202 10
\(15 \mathrm{~A}, 125 \mathrm{~V} \sim\)
Not UL-certified.
1 on page T6
Equates to standard NEMA 5-15 R
- 2pole + earth

■ without spreader claws
■ with screw terminals


Socket outlet with earth contact, USA/
CANADA, NEMA 5-20 R with hinged cover
white, glossy
4203
10
\(20 \mathrm{~A}, 125 \mathrm{~V} \sim\)
Not UL-certified.
I on page T6
Equates to standard NEMA 5-20 R
2pole + earth
- without spreader claws

■ with screw terminals

Order no.
Packing
unit
COVERS SWITCHES/PUSH-BUTTONS
Rockers
\begin{tabular}{lll}
\hline Rocker & & \\
white, glossy & \(\mathbf{1 5 5 0}\) & 10 \\
polar white, glossy & \(\mathbf{1 5 5 0} \mathbf{0 9}\) & 10 \\
brown, glossy & \(\mathbf{1 5 5 0} \mathbf{0 1}\) & 10
\end{tabular}

■ for rocker switches change-over, intermediate
■ for rocker push-buttons
■ for push-button BCU 1gang and group push-button BCU 1gang

\begin{tabular}{lll}
\(l\) Rocker with labelling field \\
white, glossy & \(\mathbf{1 6 2 9}\) & \\
polar white, glossy & \(\mathbf{1 6 2 9} 09\) & 10 \\
brown, glossy & \(\mathbf{1 6 2 9} \mathbf{0 1}\) & 10
\end{tabular}

Labelling field height arranged for 9 mm P-touch strips for labelling with names, notes etc.

■ for rocker switches change-over, intermediate
■ for rocker push-buttons
■ for push-button BCU 1gang and group push-button BCU 1gang

\begin{tabular}{lll}
\(l\) Rocker with 5 lenses attached \\
white, glossy & \(\mathbf{1 5 5 3}\) & \\
polar white, glossy & \(\mathbf{1 5 5 3 0 9}\) & 10 \\
brown, glossy & \(\mathbf{1 5 5 3} \mathbf{0 1}\) & 10 \\
\end{tabular}

Lenses with symbol for light, bell, door and neutral in clear, also neutral in red transparent.
- for rocker switches change-over, intermediate

■ for rocker push-buttons
- for push-button BCU 1gang and group push-button BCU 1gang
- for illumination and monitoring circuit

\begin{tabular}{ll} 
Rocker with red lens and „Heizung \\
Notschalter" imprint \\
white, glossy & \(\mathbf{1 5 6 8}\)
\end{tabular}
\begin{tabular}{lll} 
polar white, glossy & \(\mathbf{1 5 6 8 0 9}\) & 10 \\
brown, glossy & \(\mathbf{1 5 6 8 0 1}\) & 10 \\
& & 10
\end{tabular}\(\$ l\)

Or use glass pane protected heating emergency switch.

Not suitable for heating systems > 50 kW .

■ for rocker switches change-over, intermediate
■ for rocker push-buttons
■ for push-button BCU 1gang and group push-button BCU 1gang
■ for monitoring circuit

Order no.
Packing
unit
Emergency switch covers


Centre plate with glass screen, rocker and adhesive label sheets red, glossy 1295

The cover can be replaced with the standard rocker on all rocker switches and rocker push-buttons in this range.

Adhesive label sheets, text white: „Notschalter", „Rauchabzug", „Feuerschutztür schließen",
„Feuerabschluss schließen", „Heizung", „Lichtkuppel", „Hausalarm" und „Öffnen" supplied.

Not suitable for heating systems > 50 kW .
The glass window protects against incorrect usage.

■ for rocker switches change-over, intermediate
- for rocker push-buttons
- for push-button BCU 1gang and group push-button BCU 1gang

\section*{Rockers}

\begin{tabular}{lll} 
Rocker with imprint „0" & \\
white, glossy & \(\mathbf{1 5 5 1}\) & 10 \\
polar white, glossy & \(\mathbf{1 5 5 1} 09\) & 10 \\
brown, glossy & \(\mathbf{1 5 5 1} \mathbf{0 1}\) & 10
\end{tabular}

For rocker switch 2pole on/off order no. 3032 ..
For rocker switch 3pole on/off order no. 303303
\(\square\) for multi-pole rocker switch with predefined 0 position


Rocker with red lens and imprint „0"
\begin{tabular}{lll} 
white, glossy & \(\mathbf{1 5 5 8}\) & 10 \\
polar white, glossy & \(\mathbf{1 5 5 8 0 9}\) & 10 \\
brown, glossy & \(\mathbf{1 5 5 8 0 1}\) & 10
\end{tabular}

For rocker switch 2pole on/off order no. 3032 ..
For rocker switch 3pole on/off order no. 303303
- for multi-pole rocker switch with predefined 0 position
- for group push-button BCU 1gang

■ for illumination and monitoring circuit


\section*{Rocker with red lens and „Heizung \\ Notschalter" imprint}
\begin{tabular}{lll} 
white, glossy & \(\mathbf{1 5 6 9}\) & 10 \\
polar white, glossy & \(\mathbf{1 5 6 9 0 9}\) & 10 \\
brown, glossy & \(\mathbf{1 5 6 9 0 1}\) & 10
\end{tabular}

Or use glass pane protected heating emergency switch.

Not suitable for heating systems \(>50 \mathrm{~kW}\).

■ for multi-pole rocker switch with predefined 0 position
■ for group push-button BCU 1gang
\(■\) for illumination and monitoring circuit

Order no.


\section*{Rockers with imprinted symbol arrow}
\begin{tabular}{lll} 
white, glossy & \(\mathbf{1 5 5 2} \mathbf{2 2}\) & 10 \\
polar white, glossy & \(\mathbf{1 5 5 2} \mathbf{2 9}\) & 10 \\
brown, glossy & \(\mathbf{1 5 5 2} \mathbf{2 1}\) & 10
\end{tabular}

For rockers switch for shutters order no. 303520
For rockers push-button for shutters order
no. 503520
For push-button BCU 2gang order no. 75142000
\begin{tabular}{|llll}
\hline \multicolumn{4}{l}{ Rockers screw-on } \\
\hline & Rocker screw-on \\
white, glossy & \(\mathbf{1 5 5 9}\) & 10 \\
& polar white, glossy & \(\mathbf{1 5 5 9} \mathbf{0 9}\) & 10 \\
brown, glossy & \(\mathbf{1 5 5 9} \mathbf{0 1}\) & 10
\end{tabular}
- with cover plug for screw fitting

■ for rocker switches change-over, intermediate
- for rocker push-buttons


Rocker screw-on with 5 lenses attached
\begin{tabular}{lll} 
white, glossy & \(\mathbf{1 5 5 7}\) & 10 \\
polar white, glossy & \(\mathbf{1 5 5 7 0 9}\) & 10 \\
brown, glossy & \(\mathbf{1 5 5 7 0 1}\) & 10
\end{tabular}

Lenses with symbol for light, bell, door and neutral in clear, also neutral in red transparent.
- with cover plug for screw fitting

■ for rocker switches change-over, intermediate
- for rocker push-buttons
- for illumination and monitoring circuit


Rockers screw-on
\begin{tabular}{lll} 
white, glossy & \(\mathbf{1 5 6 5}\) & 10 \\
polar white, glossy & \(\mathbf{1 5 6 5 0 9}\) & 10 \\
brown, glossy & \(\mathbf{1 5 6 5 0 1}\) & 10
\end{tabular}
- with cover plug for screw fitting

■ for rockers switches
■ for rockers push-buttons and group rockers pushbuttons

Order no.
Packing
unit
Rotary switches/rotary push-buttons for shutters


\section*{Key switches/key push-buttons}

Centre plate for key switch/key push-button with additional earth contact
white, glossy 15191210
polar white, glossy 15191910
brown, glossy \(151911 \quad 10\)
Profile half cylinders see Module inserts.
For key switch for protection class IP44 order
no. 383620
For key push-button for protection class IP44 order no. 385620
for profile half cylinders
■ for master-key systems

\section*{SWITCHES}

Key switches


Key switch for profile half cylinders with additional earth contact
\[
\begin{array}{lll}
\text { change-over } & 383620 & 10
\end{array}
\]

\section*{\(10 \mathrm{~A}, 250 \mathrm{~V} \sim\)}

I on page T5
Profile half cylinder see module inserts / accessories order no. 1818 01, 1818

■ for master-key systems
\(\square\) without spreader claws
■ with screw terminals

Order no
Packing
unit
PUSH-BUTTONS
Key push-buttons
\begin{tabular}{lll}
\hline & \begin{tabular}{l} 
Key push-button for profile half cylinders with \\
additional earth contact \\
change-over contact,
\end{tabular} \\
usable as NC or NO
\end{tabular}

I on page T 5
Centre plate order no. 1505 .., 1507 .., 1519 ..
Profile half cylinder see module inserts / accessories order no. 1818 01, 1818
- for master-key systems

■ without spreader claws
■ with screw terminals

\section*{SWITCHES FOR SHUTTERS}

Key switches for shutters


1 on page T5 Profile half cylinder see module inserts / accessories order no. 1818 01, 1818

■ with neutral-position
■ for master-key systems
■ with push lock function
- without spreader claws

■ with screw terminals

\section*{PUSH-BUTTONS FOR SHUTTERS}

\section*{Key push-buttons for shutters}


I on page T5
Profile half cylinder see module inserts / accessories order no. 1818 01, 1818
- for master-key systems

■ without spreader claws
■ with screw terminals

\section*{PILOT LAMPS}


Centre plate for push-button and pilot lamp E10
\begin{tabular}{lll} 
white, glossy & \(\mathbf{1 5 3 0}\) & 10 \\
polar white, glossy & \(\mathbf{1 5 3 0} 09\) & 10 \\
brown, glossy & \(\mathbf{1 5 3 0} 01\) & 10
\end{tabular}

Cut-out diameter \(27,3 \mathrm{~mm}\)
Push-buttons, LEDs, neon lamps and covers see module inserts.
For push-button and pilot lamp E10 order no. 5101 ..

■ for screw cover

Order no.
Packing
unit

\section*{BLC BERKER LIGHT CONTROL}

BLC controller IP44

1) on page T15
\begin{tabular}{lll} 
BLC controller 1.1 m IP44 & \\
white, glossy & \(\mathbf{1 7 8 3}\) & 1 \\
polar white, glossy & \(\mathbf{1 7 8 3} 19\) & 1 \\
brown, glossy & \(\mathbf{1 7 8 3 1 1}\) & 1
\end{tabular}

Nominal mounting height \(1,1 \mathrm{~m}\);
Range frontal approx. 10 m ;
Range lateral each approx. 6 m ;

Detection field semi-oval shaped approx. \(10 \times 12 \mathrm{~m}\);
Detection angle \(180^{\circ}\);
Detection levels 2;
Switching segments 72;
Response sensitivity programmable
approx. 20-100 \% ;
Response brightness adjustable approx. 0-80/
unlimited Lux;
Delay time approx. 2 min.;
Operating temperature \(-20-+45^{\circ} \mathrm{C}\);
Dimensions assembling height \(23,5 \mathrm{~mm}\)
Direct sunlight penetration the upward-pointing detection plane results in failure of the movement controller. Only suitable for interiors!

Switches on for the duration of the controller delay time in case minimum response brightness level is infringed and if movement of people is detected. In conjunction with a BLC relay switch unit HVAC, the HVAC-channel is also switched on for the duration of its delay time independent of response brightness.

For BLC universal touch dimmer order no. 2902 For BLC touch control unit 1-10 V order no. 2903
For BLC touch dimmer LV order no. 2904
For BLC triac switch insert LV order no. 2905 For BLC relay switch insert order no. 2906 For BLC relay switch insert with potential-free contact order no. 290610
For BLC controller extension unit order no. 2908
For BLC relay switch insert HVAC order no. 2912 For BLC Tronic switch insert order no. 2916
For BLC stair light time switching impulse insert order no. 293410
- activation by push-button opener in the cable
- with cover to limit detection angle to \(90^{\circ}\)

Order no. Packing


BLC controller 2.2 m IP44
\begin{tabular}{lll} 
white, glossy & \(\mathbf{1 7 8 6}\) & 1 \\
polar white, glossy & \(\mathbf{1 7 8 6 1 9}\) & 1 \\
brown, glossy & \(\mathbf{1 7 8 6 1 1}\) & 1
\end{tabular} brow, glossy 1786
Nominal mounting height 2,2 m;
Range frontal approx. 12 m ;
Range lateral each approx. 6 m
At assembly height \(1,1 \mathrm{~m}\);
Range frontal approx. 6 m ;
Range lateral each approx. 3 m;
Detection field semi-oval shaped approx. \(12 \times 12 \mathrm{~m}\); Detection angle \(180^{\circ}\);
Detection levels 3;
Switching segments 104 ;
Response sensitivity programmable
approx. 20-100\% ;
Response brightness adjustable approx. 0-80/
unlimited Lux;
Delay time approx. 2 min.;
Operating temperature \(-20-+45^{\circ} \mathrm{C}\);
Dimensions assembling height \(23,5 \mathrm{~mm}\)
No direct sunlight on upper detection plane possible. Also suitable for exteriors!

Switches on for the duration of the controller delay time in case minimum response brightness level is infringed and if movement of people is detected. In conjunction with a BLC relay switch unit HVAC, the HVAC-channel is also switched on for the duration of its delay time independent of response brightness.

For BLC universal touch dimmer order no. 2902
For BLC touch control unit 1-10 V order no. 2903
For BLC touch dimmer LV order no. 2904
For BLC triac switch insert LV order no. 2905
For BLC relay switch insert order no. 2906
For BLC relay switch insert with potential-free contact order no. 290610
For BLC controller extension unit order no. 2908
For BLC relay switch insert HVAC order no. 2912
For BLC Tronic switch insert order no. 2916
For BLC stair light time switching impulse insert order no. 293410
- activation by push-button opener in the cable
- with cover to limit detection angle to \(90^{\circ}\)

Order no.
Packing
unit
\begin{tabular}{lll}
\hline BLC controller comfort \(\mathbf{1 . 1} \mathbf{~ m ~ I P 4 4 ~}\) \\
white, glossy & \(\mathbf{1 7 8 4}\) & 1 \\
polar white, glossy & \(\mathbf{1 7 8 4} \mathbf{1 9}\) & 1 \\
brown, glossy & \(\mathbf{1 7 8 4} \mathbf{1 1}\) & 1
\end{tabular}

Nominal mounting height \(1,1 \mathrm{~m}\);
Range frontal approx. 10 m ;
Range lateral each approx. 6 m;
Time to dim down 30 sec.;
Immunity time approx. 3 sec.;
Operating temperature \(-20-+45^{\circ} \mathrm{C}\);
Dimensions assembling height \(23,5 \mathrm{~mm}\)
Direct sunlight penetration the upward-pointing detection plane results in failure of the movement controller. Only suitable for interiors!

Switches on for the duration of the delay time set on the controller in case minimum response brightness level is infringed and if movement of people is detected.
In conjunction with a BLC relay switch unit HVAC, the HVAC-channel is also switched on for the duration of its delay time independent of response brightness.

For BLC universal touch dimmer order no. 2902 For BLC touch control unit 1-10 V order no. 2903
For BLC touch dimmer LV order no. 2904
For BLC triac switch insert LV order no. 2905
For BLC relay switch insert order no. 2906
For BLC relay switch insert with potential-free contact order no. 290610
For BLC controller extension unit order no. 2908
For BLC relay switch insert HVAC order no. 2912 For BLC Tronic switch insert order no. 2916
For BLC stair light time switching impulse insert order no. 293410

■ \(\mu\)-processor controlled operation (detection signal evaluation and interference signal suppression)
■ glare-proof e.g. against a torch
■ no switch-on in case of inadvertent brief shadowing
■ with adaptive sensitivity adjustment
- with teach function for response brightness
\(\square\) step operation with immunity time (e.g. for bell)
■ switch-on brightness in conjunction with BLC dimmer inserts can only be saved via BLC extension unit
\(\square\) with dimming function (soft-off) when using BLC dimmer inserts
■ activation by push-button opener in the cable
■ with cover to limit detection angle to \(90^{\circ}\)

Order no.


1 on page T15
\begin{tabular}{lll} 
BLC controller comfort \(\mathbf{2 . 2} \mathbf{~ m ~ I P 4 4 ~}\) \\
white, glossy & \(\mathbf{1 7 8 7}\) & \\
polar white, glossy & 178719 & 1 \\
brown, glossy & \(\mathbf{1 7 8 7} 11\) & 1
\end{tabular}

Nominal mounting height \(2,2 \mathrm{~m}\);
Range frontal approx. 12 m ;
Range lateral each approx. 6 m ; At assembly height 1,1 m;
Range frontal approx. 6 m ;
Range lateral each approx. 3 m ;
Detection field semi-oval shaped approx. \(12 \times 12 \mathrm{~m}\); Detection angle \(180^{\circ}\);
Detection levels 3;
Switching segments 104;
Response sensitivity programmable approx. 20-100 \% ;
Response brightness adjustable approx. 0-80 / unlimited Lux;
Delay time adjustable approx. 10 sec.- 30 min. ; Time to dim down 30 sec .;
Step operation \(0,5 \mathrm{sec}\).;
Immunity time approx. 3 sec.;
Operating temperature \(-20-+45^{\circ} \mathrm{C}\);
Dimensions assembling height \(23,5 \mathrm{~mm}\)
No direct sunlight on upper detection plane possible.
Also suitable for exteriors!
Switches on for the duration of the delay time set on the controller in case minimum response brightness level is infringed and if movement of people is detected.
In conjunction with a BLC relay switch unit HVAC, the HVAC-channel is also switched on for the duration of its delay time independent of response brightness.

For BLC universal touch dimmer order no. 2902
For BLC touch control unit 1-10 V order no. 2903 For BLC touch dimmer LV order no. 2904
For BLC triac switch insert LV order no. 2905
For BLC relay switch insert order no. 2906
For BLC relay switch insert with potential-free contact order no. 290610
For BLC controller extension unit order no. 2908
For BLC relay switch insert HVAC order no. 2912
For BLC Tronic switch insert order no. 2916 For BLC stair light time switching impulse insert order no. 293410

■ \(\mu\)-processor controlled operation (detection signal evaluation and interference signal suppression)
■ glare-proof e.g. against a torch
■ no switch-on in case of inadvertent brief shadowing
■ with adaptive sensitivity adjustment
- with teach function for response brightness

■ step operation with immunity time (e.g. for bell)
- switch-on brightness in conjunction with BLC dimmer inserts can only be saved via BLC extension unit
■ with dimming function (soft-off) when using BLC dimmer inserts
■ activation by push-button opener in the cable
\(\square\) with cover to limit detection angle to \(90^{\circ}\)

Order no.
Packing
unit

\section*{CONTROLLERS}

Controller system

I) on page T20

Controller system add-on 1.1 m
\begin{tabular}{ll} 
white, glossy & 1715 \\
brown, glossy & \(\mathbf{1 7 1 5} 11\) \\
polar white, glossy & \(\mathbf{1 7 1 5} 19\)
\end{tabular}
polar white, glossy 171519
Nominal mounting height \(1,1 \mathrm{~m}\);
Range frontal approx. 10 m ;
Range lateral each approx. 6 m ;
Detection field semi-oval shaped approx. \(10 \times 12 \mathrm{~m}\);
Detection angle \(180^{\circ}\);
Detection levels 2;
Switching segments 72;
Response sensitivity programmable
approx. 20-100 \% ;
Dimensions assembling height \(23,5 \mathrm{~mm}\)
Sends signal to main device when people are detected.
for order no. 2939
- with cover to limit detection angle to \(90^{\circ}\)


I on page T20

\section*{Controller system add-on 2.2 m}
\begin{tabular}{lll} 
white, glossy & \(\mathbf{1 7 1 8}\) & 1 \\
brown, glossy & \(\mathbf{1 7 1 8 1 1}\) & 1 \\
polar white, glossy & \(\mathbf{1 7 1 8 1 9}\) & 1
\end{tabular}

Nominal mounting height \(2,2 \mathrm{~m}\)
Range frontal approx. 12 m ;
Range lateral each approx. 6 m;
At assembly height \(1,1 \mathrm{~m}\);
Range frontal approx. 6 m ;
Range lateral each approx. 3 m;
Detection field semi-oval shaped approx. \(12 \times 12 \mathrm{~m}\);
Detection angle \(180^{\circ}\);
Detection levels 2;
Switching segments 72;
Response sensitivity programmable
approx. 20-100 \% ;
Dimensions assembling height \(23,5 \mathrm{~mm}\)
Sends signal to main device when people are detected.
for order no. 2939

■ with cover to limit detection angle to \(90^{\circ}\)

\section*{INTERMEDIATE RINGS}


Intermediate ring with hinged cover and labelling field
\begin{tabular}{lll} 
white, glossy & \(\mathbf{1 0 2 2} \mathbf{5 0}\) & 10 \\
polar white, glossy & \(\mathbf{1 0 2 2} 59\) & 10
\end{tabular}
polar white, glossy 10225910
brown, glossy 10225110

Labelling field height arranged for 9 mm P-touch strips.

IP20
- for central plates and centre plate \(50 \times 50 \mathrm{~mm}\)

Order no.
Packing
unit

\section*{SIGNALLING AND COMMAND UNITS}


Central plate for transmitting and control device \(\varnothing 18.8\) mm
\begin{tabular}{lll} 
white, glossy & \(\mathbf{1 4 3 1 0 2}\) & 10 \\
polar white, glossy & \(\mathbf{1 4 3 1 0 9}\) & 10 \\
polar white, matt/velvety & \(\mathbf{1 4 3 1 \mathbf { 1 9 0 9 }}\) & 10 \\
anthracite, matt & \(\mathbf{1 4 3 1 \mathbf { 1 6 0 6 }}\) & 10 \\
aluminium, matt & \(\mathbf{1 4 3 1 \mathbf { 1 4 0 4 }}\) & 10 \\
stainless steel, & \(\mathbf{1 4 3 1 0 4}\) & 10
\end{tabular} lacquered

Screw distance 36 mm

For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.

\section*{Attention!}

Use only with intermediate ring for central plate from the corresponding range.
Suitable for installation of equipotential bonding
built-in socket order no. 4604

Circular plug-in connector:
Amphenol-Tuchel;
Binder;
Cannon;
Farnell;
Hirose;
Hirschmann;
Lumberg;
Monacor;
RS Components;
Signalling and command units:
Lumitas;
Schlegel;
Extra low voltage jack:
PRO-CAR
■ with supporting plate
■ with cut-out dia. 18.8 mm
- without spreader claws

\section*{TV/AUDIO/VIDEO}


\section*{Central plate for aerial socket 2-hole}
white 14860210
polar white 14860910
brown 14860110

Attention!
Use only with intermediate ring for central plate from the corresponding range.
For aerial socket 2-hole single box order no. 4502
For aerial socket 2-hole throughpass socket order no. 4515

For aerial socket as per DIN 45330

Order no.
Packing
Order no.
Packing
unit
DATA COMMUNICATIONS/TELECOMMUNICATIONS
\begin{tabular}{|lll|}
\hline \multicolumn{4}{l|}{\begin{tabular}{l} 
Central plate for TAE socket outlet 6/6FF and \\
6/6NF and loudspeaker connection box \\
white, glossy
\end{tabular}} & \(\mathbf{1 4 5 8} \mathbf{0 2}\) & 10 \\
polar white, glossy & \(\mathbf{1 4 5 8 0 9}\) & 10 \\
brown, glossy & \(\mathbf{1 4 5 8 0 1}\) & 10 \\
\hline
\end{tabular}

Attention!
Use only with intermediate ring for central plate from the corresponding range.
For USB charging socket 230 V order no. 26000.
For loudspeaker connection box order no. 4572 .., 4573 ..
For USB data interface flush-mounted order no. 75040004

EAD socket outlets:
Drivex;
Fröhlich + Walter;
Intracom;
TAE and FCC overvoltage protection sockets:
Dehn;
FCC socket outlets:
Dätwyler;
Rutenbeck
■ for USB data interface flush-mounted


Central plate for FCC socket outlet
\begin{tabular}{lll} 
white, glossy & \(\mathbf{1 4 6 8 0 2}\) & 10 \\
polar white, glossy & \(\mathbf{1 4 6 8 0 9}\) & 10 \\
brown, glossy & \(\mathbf{1 4 6 8 0 1}\) & 10
\end{tabular}

For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.

Attention!
Use only with intermediate ring for central plate from the corresponding range.
For FCC socket outlet order no. 4538, 4568
For FCC socket outlet shielded order no. 4554, 4586
FCC socket outlets:
AMP;
Brand-Rex;
BTR;
Rutenbeck;
Telegärtner
- with \(45^{\circ}\) oblique outlet
- for 1 gang socket outlet cat. 3 , cat. 5 e and cat. 6

Central plate for broadband modem box
\begin{tabular}{lll} 
white, glossy & \(\mathbf{1 4 3 9} \mathbf{0 2}\) & 10 \\
polar white, glossy & \(\mathbf{1 4 3 9 0 9}\) & 10 \\
polar white, matt/velvety & \(\mathbf{1 4 3 9 1 9 0 9}\) & 10 \\
anthracite, matt & \(\mathbf{1 4 3 9 1 6 0 6}\) & 10 \\
aluminium, matt & \(\mathbf{1 4 3 9 1 4 0 4}\) & 10
\end{tabular}

Attention!
Use only with intermediate ring for central plate from the corresponding range.

Broadband modem socket:
Wisi
\(\square\) with additional multimedia output

Order no.
Order no.
Packing
unit
\begin{tabular}{|c|c|c|}
\hline - & \multicolumn{2}{|l|}{Central plate FCC/E-DAT design/Telekom ISDN socket outlet} \\
\hline & white, glossy & 146902 \\
\hline & polar white, glossy & 146909 \\
\hline & brown, glossy & 146901 \\
\hline
\end{tabular}

For detailed information on relevant articles of the listed manufacturers please see Berker online catalogue.

Attention!
Use only with intermediate ring for central plate from the corresponding range.
For FCC socket outlet order no. 4539, 4562, 4592
For FCC socket outlet shielded order no. 4555, 4587

ISDN socket outlets (Rutenbeck):
Telekom;
FCC socket outlets:
AMP;
Brand-Rex;
BTR;
CobiNet;
Corning;
Dätwyler;
EFB Electronic;
Elmat/Süveg (STL-Gruppe);
Komos;
Leoni Kerpen;
Rutenbeck;
Setec;
Telegärtner;
Telena
- with \(45^{\circ}\) oblique outlet
- for 2 gang socket outlet cat.3, cat.5e and cat. 6
\begin{tabular}{llll}
\hline & Central plate for AMP-ACO with labelling field \\
white, glossy & \(\mathbf{1 4 9 5 0 2}\) & 10 \\
polar white, glossy & \(\mathbf{1 4 9 5 0 9}\) & 10 \\
polar white, matt/velvety & \(\mathbf{1 4 9 5} \mathbf{1 9} \mathbf{0 9}\) & 10 \\
& anthracite, matt & \(\mathbf{1 4 9 5} \mathbf{1 6} \mathbf{0 6}\) & 10 \\
aluminium, matt & \(\mathbf{1 4 9 5} \mathbf{1 4 0 4}\) & 10 \\
\hline
\end{tabular}

For detailed information on relevant articles of the listed manufacturers please see Berker Online Catalogue.

Labelling field height arranged for 6 mm P-touch strips.

Attention!
Use only with intermediate ring for central plate from the corresponding range.

ACO and CO Plus inserts:
AMP, order no. 0-0336627-1, 2-0336627-1,
0-0336627-3
- cat. 5 , cat. 6 and cat. 7

\section*{Aquatec/Diecast IP44}

\section*{Splash-protected ranges Surface-mounted systems}

The surface-mounted splash-protected Berker AQUATEC IP44 range with its functional design is the ideal solution in locations where, for safety reasons, installation apparatus protected to IP44 is necessary.
- Spacious housing for easy installation
- Housing rockers and hinged cover in impact-resistant thermoplastic material in light grey/grey
- Housing material highly resistant to chemicals
- Screws and hinged cover springs made of stainless steel/cover pivot pins made of non-corrosive brass
- Large control surfaces

\begin{tabular}{lr} 
Installation characteristics & \(468-469\) \\
\hline Switches/Push-buttons & \(470-472\) \\
\hline Combinations & 473 \\
\hline Socket outlets & \(474-477\) \\
\hline Module system & \(477-478\) \\
\hline Pilot lamps & 478 \\
\hline Rotary dimmers & 478 \\
\hline Speed controllers & 479 \\
\hline Timers & 479 \\
\hline Communication technics & 479 \\
\hline Accessories & \(480-481\) \\
\hline
\end{tabular}

The Berker Aquatec IP44 surface-mounted range for installation in areas with splashing water is extremely convenient to install. Whether for garages, cellars, laundry rooms, laboratories, workshops or outside areas - choosing Aquatec IP44 products from Berker is always a safe move.

- Profiled ground terminal
and screw with channel making it easier to connect the protective earth conductor, increase the clamping force and prevent terminals from coming loose

Wiring example
Ground terminal for earthed electrical
loads with switch installation

- Mount for 3gang plug-in terminal for wires up to \(2.5 \mathrm{~mm}^{2}\) facilitates installation without junction box


Order no.
Order no.
Packing
unit


I on page 772
Rocker control switch with red lens
light grey/grey, change- 317605
10 over without neon lamp unit contact reed
light grey/grey, 2pole on/ 317205
off with imprint „, \({ }^{\text {" }}\)
\(10 \mathrm{AX}, 250 \mathrm{~V} \sim\)
Neon lamp current 1 mA
Housing screws made of stainless steel.
Can be illuminated using neon and incandescent lamp units with N -terminal see module inserts order no. 1675 .., 1676 ..

■ with neon lamp unit with N terminal order no. 1675
- for monitoring circuit
- with cable entry at top and bottom
- Wago clip-in 3 -wire connection terminal for wiring
- with plug-in terminals


\section*{Rocker switch}
light grey/grey, 2pole 6730790510
change-over
\(10 \mathrm{AX}, 250 \mathrm{~V}\) ~

I on page T76
Housing screws made of stainless steel.
- with screw terminals

■ with cable entry at top and bottom
\begin{tabular}{|c|c|}
\hline Heating emerg & ency switches \\
\hline & Emergency heating control switch with red lens and imprint \\
\hline flumb & light grey/grey, change- 356605
over \\
\hline - & light grey/grey, 2pole on/ 356205 off with imprint „0" \\
\hline \multirow[t]{5}{*}{I on page T72} & \(10 \mathrm{~A}, 250 \mathrm{~V} \sim\) Neon lamp current 1 mA \\
\hline & Or use glass pane protected heating emergency switch. \\
\hline & Housing screws made of stainless steel. \\
\hline & Not suitable for heating systems > 50 kW . \\
\hline & \begin{tabular}{l}
with imprint „Heizung Notschalter" \\
with neon lamp unit with N terminal order no. 1675 \\
with cable entry at top and bottom \\
Wago clip-in 3 -wire connection terminal for wiring with plug-in terminals
\end{tabular} \\
\hline
\end{tabular}

Order no.
Packing
unit

\section*{Emergency switch covers}

cover with glass screen, rocker and adhesive label sheets
red 12900510
The cover can be replaced with the standard rocker on all rocker switches and rocker push-buttons in this range.

Housing bolts made of stainless steel.
Adhesive label sheets, text white: „Notschalter",
„Rauchabzug", „Feuerschutztür schließen",
„Feuerabschluss schließen", „Heizung", , „Lichtkuppel", „Hausalarm" und „Öffnen" supplied.

Not suitable for heating systems > 50 kW .
In case of danger break glass and press rocker!
- for rocker switches
- for rocker push-buttons
- for push-button BCU 1gang and group push-button BCU 1gang

\section*{Rockers switches}


\section*{Rockers switch}
\begin{tabular}{lll} 
light grey/grey, series & 307505 & 10 \\
polar white, series & 307509 & 10
\end{tabular}
\(10 \mathrm{AX}, 250 \mathrm{~V}\) ~
Housing screws made of stainless steel.
- with cable entry at top and bottom

Wago clip-in 3 -wire connection terminal for wiring
- with plug-in terminals


\section*{Rockers switch}
light grey/grey, double
307805
10 change-over, isolated
input terminals
\(10 \mathrm{AX}, 250 \mathrm{~V}\)
Housing screws made of stainless steel.
- with cable entry at top and bottom
- Wago clip-in 3-wire connection terminal for wiring
- with screw terminals

Pullcord switches


\section*{Pullcord switch}
light grey/grey, change- 397615 10
over
\(10 \mathrm{AX}, 250 \mathrm{~V}\)
Pullcord connection 12 cm
Housing screws made of stainless steel.
- with cable entry at top and bottom
- for wall and ceiling mounting

■ Wago clip-in 3 -wire connection terminal for wiring
- with plug-in terminals

Order no.

PUSH-BUTTONS
Rocker push-buttons


I on page T72
For labelling with names, notes etc.
Housing screws made of stainless steel.
Labelling field height arranged for 9 mm P-touch strips.

Can be illuminated with area LED unit see accessories order no. 161901
- with cable entry at top and bottom
- Wago clip-in 3-wire connection terminal for wiring
- with plug-in terminals


Rocker push-button with 5 lenses attached
light grey/grey, change- 507605
over contact, usable as
NC or NO
polar white, change-over 507609
10
contact, usable as NC
I on page T72 or NO
\(10 \mathrm{~A}, 250 \mathrm{~V} \sim\)
Housing screws made of stainless steel.
Lenses with symbol for light, bell, door and neutral in clear, also neutral in red transparent.

Can be illuminated using neon and incandescent lamp units with N -terminal see module inserts order no. 1675 .., 1676 ..
- for illumination and monitoring circuit
- with cable entry at top and bottom
- Wago clip-in 3 -wire connection terminal for wiring
- with plug-in terminals


Rocker push-button with red lens
light grey/grey, NO, with 507105
2 separate signalling
contacts
\(10 \mathrm{~A}, 250 \mathrm{~V}\) ~
II on page T72
Housing screws made of stainless steel.
Can be illuminated using neon and incandescent lamp units with N -terminal see module inserts order no. 1675 .., 1676 ..
- for illumination and monitoring circuit
- with cable entry at top and bottom
- Wago clip-in 3-wire connection terminal for wiring
- with plug-in terminals

Order no.

\section*{Rockers push-buttons}


Rockers push-button
light grey/grey, 2 NO 507515 10
contacts, common input
terminal
\(10 \mathrm{~A}, 250 \mathrm{~V} \sim\)

Housing screws made of stainless steel.

■ with cable entry at top and bottom
\(■\) Wago clip-in 3-wire connection terminal for wiring
- with plug-in terminals

\section*{SWITCHES FOR SHUTTERS}

Rockers switches for shutters


\section*{Rockers switch for shutters}
with imprinted symbol arrow
light grey/grey, 1pole 307525
\(10 \mathrm{~A}, 250 \mathrm{~V} \sim\)
Housing screws made of stainless steel.
Follow the motor manufacturers` instructions!

■ with mechanical and electrical interlocking to prevent mutual switch on
\(\square\) with cable entry at top and bottom
\(■\) Wago clip-in 3-wire connection terminal for wiring
\(\square\) with plug-in terminals

\section*{Rotary switches/rotary push-buttons for shutters}


Rotary switch for shutters with rotary knob and imprint
light grey/grey, 2pole 324225
\(10 \mathrm{~A}, 250 \mathrm{~V}\) ~
Housing screws made of stainless steel

■ with neutral-position
■ with push lock function
- with cable entry at top and bottom

■ Wago clip-in 3-wire connection terminal for wiring
- with screw terminals

\section*{Accessories: Interlock disk for rotary switch} for shutters
for conversion to rotary 186110 push-button for shutters

Order no.
Packing
unit

\section*{Key switches for shutters}


Key switch for shutters with lock and imprint
light grey/grey, 2pole, 327205
1
key removable in mid
position
light grey/grey, 2pole, 327215
key removable in
3 positions
\(10 \mathrm{~A}, 250 \mathrm{~V} \sim\)
Housing screws made of stainless steel.

■ with neutral-position
- with 2 keys

■ with push lock function
- with cable entry at top and bottom

■ Wago clip-in 3-wire connection terminal for wiring
■ with screw terminals
■ 2pole

\section*{PUSH-BUTTONS FOR SHUTTERS}

Rockers push-buttons for shutters


Rockers push-button for shutters with imprinted symbol arrow
light grey/grey, 1pole 507505
\(10 \mathrm{~A}, 250 \mathrm{~V}\) ~

Housing screws made of stainless steel.
Follow the motor manufacturers` instructions!

■ with mechanical and electrical interlocking to prevent mutual activation
- with cable entry at top and bottom

■ Wago clip-in 3-wire connection terminal for wiring

\section*{Key push-buttons for shutters}


Key push-button for shutters with lock and imprint
light grey/grey, 1pole, 3271051
key removable in mid
position
\(10 \mathrm{~A}, 250 \mathrm{~V} \sim\)

Housing screws made of stainless steel.
- with 2 keys
- with cable entry at top and bottom
- Wago clip-in 3-wire connection terminal for wiring
- with plug-in terminals

■ 1pole

Order no.
Packing
unit

\section*{COMBINATIONS}

Combination switch/socket outlet


Combination rocker switch/SCHUKO socket outlet with hinged cover
\begin{tabular}{lll} 
light grey/grey & \(\mathbf{4 7 8 0} 05\) & 5 \\
polar white & \(\mathbf{4 7 8 0} 09\) & 5
\end{tabular}
polar white 478009

5
16 A, 250 V~
Switching current 10 AX
I on page T72
Switches, push-buttons, pilot lamps and data connector housings can be used instead of socket outlets.

Housing screws, hinged cover spring and axle made of stainless steel.

■ for vertical mounting
- change-over switch and socket outlet connectable separately
- with hollow base
\(\square\) with cable entry at top and bottom
- Wago clip-in 3-wire connection terminal for wiring
- with plug-in terminals


\section*{Combination rocker switch/SCHUKO socket outlet with hinged cover \\ light grey/grey 437605 \\ 5}

16 A, 250 V~
Switching current 10 AX
Switches, push-buttons, pilot lamps and data connector housings can be used instead of socket outlets.

Housing screws, hinged cover spring and axle made of stainless steel.

■ for vertical mounting
■ change-over switch and socket outlet connectable separately
- with hollow base
- with cable entry at top and bottom

■ with screw terminals


Order no.
Packing
unit

\section*{Combination rocker switch with red lens/} SCHUKO socket outlet with hinged cover light grey/grey 478105 5
\(16 \mathrm{~A}, 250 \mathrm{~V} \sim\)
Switching current 10 AX
Neon and incandescent lamp units with N-terminal see module inserts.

Switches, push buttons, pilot lamps and data connector housings can be used instead of SCHUKO-socket outlets.

Housing screws, hinged cover spring and axle made of stainless steel.

Can be illuminated using neon and incandescent lamp units with N -terminal see module inserts order no. 1675 .., 1676 ..
- for vertical mounting

■ can be illuminated using neon and glow lamp unit with N-terminal
- for illumination and monitoring circuit
- change-over switch and socket outlet connectable separately
- with hollow base
- with cable entry at top and bottom

■ Wago clip-in 3-wire connection terminal for wiring
- with plug-in terminals


\section*{Combination rockers switch/SCHUKO socket outlet with hinged cover \\ light grey/grey 479005 \\ 5 \\ 16 A, 250 V~ \\ Switching current 10 AX}

Switches, push-buttons, pilot lamps and data connector housings can be used instead of socket outlets.

Housing screws, hinged cover spring and axle made of stainless steel.

■ for vertical mounting
\(\square\) series switch and socket outlet connectable separately
- with hollow base
- with cable entry at top and bottom

■ Wago clip-in 3-wire connection terminal for wiring
\(\square\) with plug-in terminals

Order no.
Packing
unit


I on page 772
light grey/grey 47400510
polar white 47400910
light grey/grey, 476305
enhanced contact
protection IEC 60884-1
\(16 \mathrm{~A}, 250 \mathrm{~V}\) ~
Housing screws, hinged cover spring and axle made of stainless steel.

Connection terminals IEC 60884-1
(i)
- with hollow base
- with cable entry at top and bottom
- Wago clip-in 3-wire connection terminal for wiring
- with plug-in terminals


SCHUKO socket outlet with hinged cover
light grey/grey
424005
10
\(16 \mathrm{~A}, 250 \mathrm{~V} \sim\)
Housing screws, hinged cover springs and axles made of stainless steel.
I on page T71
Connection terminals IEC 60884-1
(i)
- with hollow base
- with cable entry at top and bottom
- with screw terminals


SCHUKO socket outlet with hinged cover and labelling field
light grey/grey 47410510
\(16 \mathrm{~A}, 250 \mathrm{~V} \sim\)
Housing screws, hinged cover spring and axle made I on page T 72 of stainless steel.

Labelling field height arranged for 9 mm P-touch strips.

Connection terminals IEC 60884-1
(1)
- with hollow base
- with cable entry at top and bottom
- Wago clip-in 3 -wire connection terminal for wiring
- with plug-in terminals

Order no.
Packing
unit


Spare keys and other closures (max. 24) on request.
Housing screws, hinged cover spring and axle made of stainless steel.

Labelling field height arranged for 9 mm P-touch strips.

Connection terminals IEC 60884-1
- \(\stackrel{\rightharpoonup}{1}\)

■ e. g. for washing machine
- each with 2 keys
- with hollow base
- with cable entry at top and bottom

■ Wago clip-in 3-wire connection terminal for wiring
- with plug-in terminals

Order no.
Packing
unit
2gang SCHUKO socket outlet, each with hinged cover, lock and labelling field light grey/grey, with 476805
same closures
16 A, 250 V~
Switches, push-buttons, pilot lamps and data connector housings can be used instead of socket outlets.

Spare keys and other closures (max. 24) on request.
Housing screws, hinged cover springs and axles made of stainless steel.

Labelling field height arranged for 9 mm P-touch strips.

Connection terminals IEC 60884-1
(i)
- e. g. for washing machine and drier
- for horizontal mounting
- each with 2 keys
- with hollow base
- with 2 cable entries at top
- 2 knock out openings for entries at bottom

Wago clip-in 3-wire connection terminal for wiring
- with plug-in terminals
\begin{tabular}{lrr} 
2gang SCHUKO socket outlet & \\
with hinged cover & \\
light grey/grey & 477005 & 5 \\
polar white & 477009 & 5 \\
\(16 \mathrm{~A}, 250 \mathrm{~V} \sim\) & &
\end{tabular}

Switches, push-buttons, pilot lamps and data connector housings can be used instead of socket outlets.

Housing screws, hinged cover springs and axles made of stainless steel.

Connection terminals IEC 60884-1
(1)
- for vertical mounting
- inserts wired-through
- with hollow base
- with cable entry at top and bottom
- Wago clip-in 3 -wire connection terminal for wiring
- with plug-in terminals

Order no.

\section*{2gang SCHUKO socket outlet with hinged cover \\ light grey/grey 427005 \\ 5 \\ 16 A, 250 V~}

Switches, push-buttons, pilot lamps and data connector housings can be used instead of socket outlets.

Housing screws, hinged cover springs and axles made of stainless steel.

Connection terminals IEC 60884-1 - 1
- for vertical mounting
- inserts wired-through
- with hollow base
- with cable entry at top and bottom
- 2 knock out openings for entries at bottom
- with screw terminals


2gang SCHUKO socket outlet with hinged cover
light grey/grey 478405 \(16 \mathrm{~A}, 250 \mathrm{~V}\) ~

Switches, push-buttons, pilot lamps and data I on page T72 connector housings can be used instead of socket outlets.

Housing screws, hinged cover springs and axles made of stainless steel.

Connection terminals IEC 60884-1
- 1 )
- for horizontal mounting
- inserts wired-through
- with hollow base
- with 2 cable entries at top
- 2 knock out openings for entries at bottom
- Wago clip-in 3 -wire connection terminal for wiring
- with plug-in terminals


\section*{2gang SCHUKO socket outlet with hinged cover and labelling field}
light grey/grey
477015
5
16 A, 250 V~
Switches, push-buttons, pilot lamps and data connector housings can be used instead of socket outlets.

Housing screws, hinged cover springs and axles made of stainless steel.

Labelling field height arranged for 9 mm P-touch strips.

Connection terminals IEC 60884-1
(i)
- for vertical mounting
- inserts wired-through
- with hollow base
- with cable entry at top and bottom
- Wago clip-in 3 -wire connection terminal for wiring
- with plug-in terminals

Order no.
Packing
Order no.
Packing
unit
Double SCHUKO socket outlet
2gang SCHUKO socket outlet with hinged cover and labelling field
light grey/grey 427015
\(16 \mathrm{~A}, 250 \mathrm{~V} \sim\)
Switches, push-buttons, pilot lamps and data connector housings can be used instead of socket outlets.

Housing screws, hinged cover springs and axles made of stainless steel.

Connection terminals IEC 60884-1
- 1
- for vertical mounting
- inserts wired-through
- with hollow base
- with cable entry at top and bottom
- with screw terminals

\section*{3gang SCHUKO socket outlet with hinged cover}
light grey/grey 477305
\(16 \mathrm{~A}, 250 \mathrm{~V} \sim\)
As a result of the side cable entries specially suited
for installation over workbenches.
Switches, push-buttons, pilot lamps and data connector housings can be used instead of socket outlets.

Housing screws, hinged cover springs and axles made of stainless steel.

Connection terminals IEC 60884-1
(i)
- for horizontal mounting
- inserts wired-through
- with hollow base
- with cable entry at top and each side
- Wago clip-in 3 -wire connection terminal for wiring
- with plug-in terminals

3gang SCHUKO socket outlet with hinged cover
light grey/grey 427305
\(16 \mathrm{~A}, 250 \mathrm{~V} \sim\)
As a result of the side cable entries specially suited
for installation over workbenches.
Switches, push-buttons, pilot lamps and data connector housings can be used instead of socket outlets.

Housing screws, hinged cover springs and axles made of stainless steel.

\footnotetext{
Connection terminals IEC 60884-1
- (1)
- for horizontal mounting
- inserts wired-through
- with hollow base
- with cable entry at top and each side
- with screw terminals
}


\section*{with hinged cover}
light grey/grey 477505
\(16 \mathrm{~A}, 250 \mathrm{~V} \sim\)
As a result of the side cable entries specially suited
I on page T72 for installation over workbenches.
Housing screws, hinged cover springs and axles made of stainless steel.

Connection terminals IEC 60884-1
(-)
- for horizontal mounting
- inserts wired-through
- with hollow base
- with cable entry at top and each side
- Wago clip-in 3 -wire connection terminal for wiring
- with plug-in terminals

Double SCHUKO socket outlet with hinged cover
light grey/grey 427505 5
\(16 \mathrm{~A}, 250 \mathrm{~V}\) ~
As a result of the side cable entries specially suited
I on page T71 for installation over workbenches.

Housing screws, hinged cover springs and axles made of stainless steel.

Connection terminals IEC 60884-1
(i)
- for horizontal mounting
- inserts wired-through
- with hollow base
- with cable entry at top and each side
- with screw terminals

Double SCHUKO socket outlet with hinged cover and labelling field
light grey/grey 427515 5

16 A, 250 V~
As a result of the side cable entries specially suited for installation over workbenches.

Housing screws, hinged cover springs and axles made of stainless steel.

Connection terminals IEC 60884-1
(i)
- for horizontal mounting
- inserts wired-through
- with hollow base
- with cable entry at top and each side
- with screw terminals

Order no.
Packing unit

\section*{Double SCHUKO socket outlet} with hinged cover and labelling field light grey/grey

477515
5
\(16 \mathrm{~A}, 250 \mathrm{~V} \sim\)
As a result of the side cable entries specially suited for installation over workbenches.

Housing screws, hinged cover springs and axles made of stainless steel.

Labelling field height arranged for 9 mm P-touch strips.

Connection terminals IEC 60884-1
(i)

■ for horizontal mounting
- inserts wired-through
- with hollow base
\(\square\) with cable entry at top and each side
■ Wago clip-in 3-wire connection terminal for wiring
- with plug-in terminals

\section*{MODULE SYSTEM}

Housing bottom parts


Housing bottom section with cable entry
light grey, 1gang 6118910510
light grey,
2gang horizontal
light grey,
67193205 0

3gang horizontal

For rocker switch with housing top section order no. 613072 15, 613075 15, 613076 15, 61307715 For control rocker switch with red lens and housing top section order no. 613172 15, 61317615 For SCHUKO socket outlet with hinged cover and housing top section order no. 61474015
For rocker push-button with 5 lenses attached and housing top section order no. 61507615 For socket outlet with earth pin and housing top section order no. 67456415

Wago clip-in 3-wire connection terminal for wiring


Housing bottom part with screwed gland M20 x 1.5
light grey, 1gang \(61196005 \quad 10\)
light grey, 2gang vertical 611961055

For rocker switch with housing top section order no. 613072 15, 613075 15, 613076 15, 61307715 For control rocker switch with red lens and housing top section order no. 613172 15, 61317615 For SCHUKO socket outlet with hinged cover and housing top section order no. 61474015
For rocker push-button with 5 lenses attached and housing top section order no. 61507615
For socket outlet with earth pin and housing top section order no. 67456415

Wago clip-in 3-wire connection terminal for wiring

Order no.

\section*{Rocker switches}


Rocker switch with housing top section light grey/grey, 2pole on/ 6130721510 off with imprint „, 0 and \(1^{4}\)
light grey/grey, 61307715
intermediate
light grey/grey, \(\quad 61307615\) change-over
10 AX, 250 V~
Housing screws made of stainless steel.
For combining with lower casings order no. 601930 05, \(61189105,61196005,61196105\), 67193205
- with plug-in terminals

\begin{tabular}{llr}
\begin{tabular}{l} 
Rocker control switch with red lens and \\
housing top section \\
light grey/grey, change- \\
over
\end{tabular} & \(613176 \mathbf{1 5}\) & 10 \\
\begin{tabular}{l} 
light grey/grey, 2pole on/ \\
off with imprint „0"
\end{tabular} & 61317215 & 10 \\
\(10 \mathrm{AX}, 250 \mathrm{~V} \sim\) &
\end{tabular}
\(10 \mathrm{AX}, 250 \mathrm{~V} \sim\)
Housing screws made of stainless steel.
Can be illuminated using neon and incandescent lamp units with N -terminal see module inserts order no. 1675 .., 1676 ..
For combining with lower casings order no. 601930 05, 61189105,611960 05, 61196105 , 67193205

■ with neon lamp unit with N terminal order no. 1675
\(\square\) for illumination and monitoring circuit
\(\square\) with plug-in terminals
Rockers switches


Rockers switch with housing top section
light grey/grey, series 61307515
10 AX, 250 V~
Housing screws made of stainless steel.
For combining with lower casings order no. 601930 05, 61189105,611960 05, 61196105 , 67193205
- with plug-in terminals

Order no.
Packing
unit
Rocker push-buttons
Rocker push-button with 5 lenses attached
and housing top section
light grey/grey, change- 61507615
over contact, usable as
NC or NO
\(10 \mathrm{~A}, 250 \mathrm{~V} \sim\)

Housing screws made of stainless steel.
Lenses with symbol for light, bell, door and neutral in clear, also neutral in red transparent.
Can be illuminated using neon and incandescent lamp units with N -terminal see module inserts order no. 1675 .., 1676 .
For combining with lower casings order
no. 601930 05, 61189105,611960 05, 61196105 , 67193205

■ can be illuminated using neon and glow lamp unit with N-terminal
■ for illumination and monitoring circuit
■ with plug-in terminals
SCHUKO-socket outlets


SCHUKO socket outlet with hinged cover and housing top section
light grey/grey \(61474015 \quad 10\)
\(16 \mathrm{~A}, 250 \mathrm{~V} \sim\)
Housing screws, hinged cover springs and axles made of stainless steel.
For combining with lower casings order
no. 601930 05, 61189105,611960 05, 61196105 ,
67193205
Connection terminals IEC 60884-1
(i)
- with hollow base

■ with plug-in terminals

\section*{Socket outlets with earth pin}


\section*{Socket outlet with earth pin and housing top} section
light grey/grey,
67456415
enhanced contact
protection IEC 60884-1
\(16 \mathrm{~A}, 250 \mathrm{~V} \sim\)

For combining with housing bottom section with cable entry order no. \(60193005,61189105,6719\) 3205
For combining with housing bottom section with bolted joint lead-in M20 x 1.5 order no. 61196005 , 61196105

Connection terminals IEC 60884-1
(i)

■ 2pole + earth
- with hollow base

■ with screw-in lift terminals

Order no.
Packing
unit
PILOT LAMPS
Push-buttons and pilot lamps


Push-button and pilot lamp E10
light grey/grey, 511215
10
NO contact
250 V~
Momentary-contact current max. 2 A;
Incandescent lamp power max. 2 W
Housing screws made of stainless steel.
Knob for push-button and pilot lamp E10 see module inserts order no. 1279 ..
Cover for push-button and pilot lamp E10 see
module inserts order no. 1280, 1281, 1282, 1283
Can be illuminated using neon lamp E10 see module inserts order no. 1601
Can be illuminated using LED lamp E10 see module inserts order no. 1678 .
- for illumination and monitoring circuit
- with cable entry at top and bottom
- Wago clip-in 3 -wire connection terminal for wiring
- with screw terminals

\section*{Pilot lamp E 14}


Pilot lamp E14
light grey/grey 517215
10
250 V~
Incandescent lamp power max. 3 W;
Lamp base length max. \(23,5 \mathrm{~mm}\)
Housing screws made of stainless steel.
Cover for pilot lamp E14 see module inserts order no. 1220, 1230, 1231, 1232
Can be illuminated using incandescent lamp E14 see module inserts order no. 1610 ..
Can be illuminated using LED lamp E14 see module inserts order no. 1679 ..

■ with cable entry at top and bottom
- Wago clip-in 3 -wire connection terminal for wiring
- with screw terminals

\section*{ROTARY DIMMERS}


I on page T9
Rotary dimmer with soft-lock and setting knob light grey/grey 289505
\(230 \mathrm{~V} \sim, 50 \mathrm{~Hz}\)
230 V incandescent and halogen lamps \(60-450 \mathrm{~W}\);
LV power boosters built-in max. 10;
Axial dimension diameter 4 mm
Housing screws made of stainless steel.
Not suitable for 2- or 3gang combinations!

- with change-over pressure switch
- short-circuit and overload proof (fine-wire fuse)
- with spare fuse
- phase cut-on
- with cable entry at top and bottom
- Wago clip-in 3 -wire connection terminal for wiring
- with plug-in terminals

Order no.
Packing
unit

\section*{SPEED CONTROLLERS}


Speed controller with setting knob light grey/grey 2970101 \(230 \mathrm{~V} \sim, 50 \mathrm{~Hz}\)
Rated motor current and segment current, max.
0,1-2,3 A
I on page 78
Housing screws made of stainless steel.
Not suitable for 2- or 3gang combinations!

\section*{(-)}
- with imprinted symbol curve
- with rotary on/off switch
- for devices with motory drive
- additional switching contact for blade control
- basic speed adjustable
- short-circuit and overload proof (fine-wire fuse)
- with spare fuse
- phase cut-on
- with cable entry at top and bottom
- Wago clip-in 3-wire connection terminal for wiring
- with plug-in terminals

\section*{TIMERS}

Timers


Mechanical timer with setting knob light grey/grey, max. 422705 15 min
light grey/grey, max. 422805
120 min
\(16 \mathrm{AX}, 250 \mathrm{~V}\)
Housing screws made of stainless steel.
Not suitable for 2 - or 3gang combinations!
- with time scale imprint
- with through terminal
- with cable entry at top and bottom
- Wago clip-in 3 -wire connection terminal for wiring
- with screw terminals
- 2pole on/off

\section*{COMMUNICATION TECHNICS}

Data connector housings


Data connector housing with labelling field light grey/grey 425615

Housing screws made of stainless steel.
Labelling field height arranged for 9 mm P-touch strips.

Attention, a different degree of protection!
Mounting plates see acessories order no. 1111 .., 1112 ..
- for mounting plates
- with cable entry at top and bottom
- Wago clip-in 3-wire connection terminal for wiring

Order no.
Packing
unit
ACCESSORIES
Neon lamp units
Surface LED unit for illuminated labelling field polar white, 230 V , 16190110 \(2,5 \mathrm{~mA}\)

When several area LED units are used the lamp current may result in malfunctioning of the relay/pulse relay.

Remedy:
Connect a capacitor \(230 \mathrm{~V}, 1 \mu \mathrm{~F}\) per 10 mA LED current in parallel with the coil.
For rocker switch with illuminated labelling field order no. 307655
For rockers switch with illuminated labelling field order no. 507655



\section*{Cable entry}
\begin{tabular}{lll} 
light grey, for 1 cable & \(\mathbf{1 8 8 1}\) & 10 \\
light grey, for 2 cables & \(\mathbf{1 8 8 2}\) & 10
\end{tabular}

Extended cable entry
light grey, for 1 cable 188905


\section*{Screwed gland M20 x 1.5 mm \\ light grey, for 2 cables 61196305 \\ light grey, for 1 cable 196205}

10
light grey, for 1 cable \(196205 \quad 10\)


\section*{Tube entry}
light grey
1886
10
Thread M20 x \(1,5 \mathrm{~mm}\);
Distance from wall to centre of pipe 21 mm


Duct entry for 1 cable
light grey, for cable ducts 180405
1
\(15 \times 15 \mathrm{~mm}\)
light grey, for cable ducts 180415
\(15 \times 25 \mathrm{~mm}\)
light grey, for cable ducts 1804251
\(15 \times 30 \mathrm{~mm}\)

\section*{Duct entry for 2 cables}
light grey, for cable ducts 180505
1
\(15 \times 15 \mathrm{~mm}, 15 \times 25\)
\(\mathrm{mm}, 15 \times 30 \mathrm{~mm}\)



Key push-button for shutters surface-mounted for profile half cylinders
1pole 4447
\(16 \mathrm{~A}, 250 \mathrm{~V} \sim\)
Dimensions (W x H x D) \(74 \times 74 \times 45 \mathrm{~mm}\)
Profile half cylinder see module inserts / accessories order no. 1818 01, 1818
- with imprint
\(\square\) with cover lock
■ with neutral-position
- with cable entry diameter 22.5 mm (PG 16) at bottom
- with cable entry diameter 11 mm at backside

■ with screw terminals

Key push-button for shutters flush-mounted for profile half cylinders
1pole 4449 1

16 A, 250 V~
Installation depth \(\varnothing 59 \times 61 \mathrm{~mm}\);
Dimensions ( \(\mathrm{L} \times \mathrm{W}\) ) \(75 \times 75 \mathrm{~mm}\)
Profile half cylinder see module inserts / accessories order no. 1818 01, 1818
- with imprint

■ with cover lock
■ with neutral-position
■ with flush-mounted box
\(\square\) with cable entry diameter 11 mm at top and backside
- with screw terminals

\section*{ISO-Panzer IP44/IP66}

\section*{Splash-protected/waterproof range Surface-mounted system}

Berker ISO-Panzer IP44/IP66 is a splash-protected/waterproof surface-mounted range for extreme environmental conditions, made of special materials.
- For use in difficult conditions (e.g. building sites); withstands even the toughest use
- High chemical resistance of the housing material
- Non-corrosive
- Screws and hinged cover springs made of stainless steel/cover pivot pins made of non-corrosive brass
- Colour signalling: the yellow control elements make the surface-mounted units stand out against the background even in areas with limited visibility


ISO-Panzer IP44
\begin{tabular}{lc}
\hline Switches/Push-buttons & 484 \\
\hline Combinations & 484 \\
\hline Socket outlets & 485 \\
\hline Signalling and command units & 486 \\
\hline Accessories & 486 \\
\hline Switches/Push-buttons & \\
\hline Blind rotary switche/Push-button & 488 \\
\hline Socket outlets & 488 \\
\hline Pilot lamps & 488 \\
\hline
\end{tabular}

Order no.
Order no.
Packing

\section*{SWITCHES}

Rocker switches

1) on page T72

Rocker switch with clear lens dark grey/yellow, 3446 change-over
\(10 \mathrm{AX}, 250 \mathrm{~V}\) ~
Housing screws made of stainless steel.
Can be illuminated using neon and incandescent
lamp units - see accessories order no. 1615, 1617, 1618, 1637

■ for illumination and monitoring circuit
■ with additional terminal for e.g. control switch function
■ with cable entry at top and bottom
■ with plug-in terminals

\section*{Key switches}

Key switch for profile half cylinders dark grey/yellow, 2pole 4386 change-over
\(10 \mathrm{~A}, 250 \mathrm{~V} \sim\)
Housing screws made of stainless steel.
Profile half cylinder see module inserts / accessories order no. 1818 01, 1818

■ for master-key systems
- with cable entry at top and bottom
- with screw terminals

PUSH-BUTTONS
Rocker push-buttons


I on page T72

\section*{Rocker push-button with red lens} and 4 symbols attached
dark grey/yellow, NO, 504101
with 2 separate signal-
ling contacts
\(10 \mathrm{~A}, 250 \mathrm{~V} \sim\)
Neon lamp current 2,7 mA
Housing screws made of stainless steel.
With light, bell, door and neutral symbols.
Can be illuminated using neon and incandescent lamp units - see accessories order no. 1615, 1617, 1618, 1637

■ with neon lamp unit for rocker switch and rocker push-button order no. 1615
- for illumination and monitoring circuit
- with cable entry at top and bottom

■ with plug-in terminals

PUSH-BUTTONS FOR SHUTTERS
Key push-buttons for shutters

key push-button for shutters for profile half cylinders with imprint dark grey/yellow, 1pole 4391
\(10 \mathrm{~A}, 250 \mathrm{~V} \sim\)
Housing screws made of stainless steel.
Profile half cylinder see module inserts / accessories order no. 1818 01, 1818
- with neutral-position

■ for master-key systems
■ with cable entry at top and bottom
- with screw terminals

\section*{COMBINATIONS}

Combination switch/socket outlet


\section*{Combination rotary switch/SCHUKO socket} outlet with hinged cover
dark grey/yellow, with 4246 change-over switch
\(16 \mathrm{~A}, 250 \mathrm{~V} \sim\)
Switching current 16 AX
Instead of socket outlets, any other devices from the ISO-reinforced IP44 and IP66 ranges with degree of protection IP44 can be used.

Housing screws, hinged cover spring and axle made of stainless steel.

■ for vertical mounting
■ phase wired-through
- with hollow base
- with cable entry at top and bottom

■ with screw terminals


Combination key switch/SCHUKO socket outlet with hinged cover
dark grey/yellow, 2pole 44321 can be switched on/off
16 A, 250 V~
Switching current 10 A
Instead of SCHUKO-socket outlets, any other devices from the ISO-reinforced IP44 and IP66 ranges with degree of protection IP44 can be used.

Housing screws, hinged cover spring and axle made of stainless steel.
Profile half cylinder see module inserts / accessories order no. 1818 01, 1818

■ with imprint „0" and „1"
■ for vertical mounting
■ for master-key systems
- with hollow base
- with cable entry at top and bottom
- phase and neutral conductor wired-through
- with screw terminals

Order no.
Packing
unit
SOCKET OUTLETS
SCHUKO-socket outlets


SCHUKO socket outlet with hinged cover
dark grey/yellow 4280

1
\(16 \mathrm{~A}, 250 \mathrm{~V} \sim\)
Housing screws, hinged cover spring and axle made of stainless steel.
1 on page T72
Connection terminals IEC 60884-1
(i)
- with hollow base
- with cable entry at top and bottom
- with screw terminals


II on page 772
2gang SCHUKO socket outlet with hinged cover
dark greylyellow 4370
16 A, 250 V~
Instead of socket outlets, any other devices from the ISO-reinforced IP44 and IP66 ranges with degree of protection IP44 can be used.

Housing screws, hinged cover springs and axles made of stainless steel.

Connection terminals IEC 60884-1
(i)
- for vertical mounting
- inserts wired-through
- with hollow base
- with cable entry at top and bottom
- with screw terminals

\section*{Double SCHUKO socket outlet}
with hinged cover
dark grey/yellow 4322 \(16 \mathrm{~A}, 250 \mathrm{~V}\) ~

As a result of the side breakout openings specially suited for installation over workbenches.

Housing screws, hinged cover springs and axles made of stainless steel.

Connection terminals IEC 60884-1
(i)
- for horizontal mounting
- inserts wired-through
- with hollow base
- with cable entry at top

■ side knock out openings for entries
- with screw terminals

Order no.
3gang SCHUKO socket outlet
with hinged cover
dark grey/yellow
\(16 \mathrm{~A}, 250 \mathrm{~V} \sim\) \begin{tabular}{l} 
As a result of the side break-out openings specially \\
suited for mounting over workbenches. \\
For side cable entry use only extended cable gland \\
order no. 1889 02.
\end{tabular}

\section*{NEMA-socket outlets}


I on page T72
Socket outlet with earth contact, USA/ CANADA, NEMA 5-15 R with hinged cover dark grey/yellow, 1gang 4286
vertical
dark grey/yellow, 3gang 43241 horizontal
\(15 \mathrm{~A}, 125 \mathrm{~V} \sim\)
Housing screws, hinged cover springs and axles made of stainless steel.

Not UL-certified.

Equates to standard NEMA 5-15 R
- 2pole + earth
- with hollow base

■ with screw terminals


I on page T72
Socket outlet with earth contact, USA/ CANADA, NEMA 5-20 R with hinged cover dark grey/yellow, 1gang 4288 dark grey/yellow, 2gang 42941 vertical
dark grey/yellow, 3gang 4325
horizontal
\(20 \mathrm{~A}, 125 \mathrm{~V} \sim\)
Housing screws, hinged cover springs and axles made of stainless steel.

Not UL-certified.

Equates to standard NEMA 5-20 R
- 2pole + earth
- with hollow base
- with screw terminals

Order no.

\section*{SIGNALLING AND COMMAND UNITS}


Empty housing
dark grey 4290
Housing screws made of stainless steel.
- 1 knock out opening, for command unit dia. 22.5 mm
- with cable entry at top and bottom


Centre plate for signalling and command unit Ø 22.5 mm
dark grey/yellow 4291
Housing screws made of stainless steel.
IP44 protection is only guaranteed in conjunction with a suitable command unit!

Safety emergency off button type:
Schlegel, order no. RZ;
Safety emergency off button with lock type:
Schlegel, order no. RVSCH;
Only for installation of emergency push-buttons with contact maker:
Schlegel, order no. ETR
■ with cut-out dia. 22.5 mm
■ with cable entry at top and bottom

\section*{ACCESSORIES}

Neon lamp units


Neon lamp unit for rocker switch and rocker push-button
white, 2pole group 1-0-2, 161510
16 (5) A, 250 V~

If several neon lamp units are used the lamp current may result in malfunctioning of the relay/pulse relay.

Insert a neutral conductor or connect a capacitor with \(1 \mu \mathrm{~F}\) per 10 mA neon lamp current in parallel with the coil.
For rockers switch with clear lens order no. 3446 For rocker push-button with red lens and 4 supplied symbols order no. 504101

Incandescent lamp units
\begin{tabular}{llll}
\hline\(\square\) & \begin{tabular}{l} 
Incandescent lamp unit for rocker switch and \\
rocker push-button
\end{tabular} \\
& yellow, \(12 \mathrm{~V}, 65 \mathrm{~mA}\) & \(\mathbf{1 6 1 7}\) & 10 \\
& green, \(24 \mathrm{~V}, 35 \mathrm{~mA}\) & \(\mathbf{1 6 1 8}\) & 10 \\
& red, \(48 \mathrm{~V}, 25 \mathrm{~mA}\) & \(\mathbf{1 6 3 7}\) & 10
\end{tabular}

For rockers switch with clear lens order no. 3446 For rocker push-button with red lens and 4 supplied symbols order no. 504101
\begin{tabular}{l} 
Labelling fields \\
\multicolumn{3}{l}{\begin{tabular}{l} 
Slot-in labelling field \\
dark grey
\end{tabular}} & 1901 & 10 \\
\\
\\
\\
\\
\end{tabular}
\begin{tabular}{|c|c|c|}
\hline \multicolumn{3}{|l|}{Combination connector} \\
\hline black & 188001 & 10 \\
\hline \multicolumn{3}{|l|}{\(\square\) to combine devices} \\
\hline \multicolumn{3}{|l|}{Combination connector} \\
\hline black & 1806 & 10 \\
\hline \multicolumn{3}{|l|}{- to combine IP44 devices with IP66 devices} \\
\hline \multicolumn{3}{|l|}{Cable entry} \\
\hline black, for 1 cable & 188101 & 10 \\
\hline \multicolumn{3}{|l|}{Screwed gland M20 x 1.5 mm} \\
\hline black, for 1 cable & 196201 & 10 \\
\hline
\end{tabular}

Order no.
Packing
unit
SWITCHES
Rotary switches


1 on page T72
\begin{tabular}{lcc}
\begin{tabular}{l} 
Rotary switch \\
dark greylyellow, \\
change-over, 250 \(\mathrm{V} \sim\)
\end{tabular} & \(\mathbf{3 0 4 6}\) & 1 \\
\begin{tabular}{l} 
dark grey/yellow,
\end{tabular} & \(\mathbf{3 0 4 5}\) & 1 \\
\begin{tabular}{l} 
Series, 250 \(\mathrm{V} \sim\) \\
dark grey/yellow, 3pole
\end{tabular} & \#3273 & 1
\end{tabular}
dark greylyellow, 3pole \#3273 1
on/off, 400 V , with imprint ,0"

16 AX
Housing screws made of stainless steel.
Switching sequence e.g. for clockwise series switch:
> \(1>1+2>2>0\)

■ with cable entry at top and bottom
- with screw terminals


I on page T72
Housing screws made of stainless steel.
Can be illuminated using neon and incandescent lamp units - see accessories order no. 1611, 1613, 1614

■ with neon lamp unit for rotary control switch order no. 1611
- for illumination and monitoring circuit

■ with additional terminal for e.g. control switch function
■ with cable entry at top and bottom
■ with screw terminals


I on page T72
Rotary control switch with red lens
dark grey/yellow,
3142
1
2pole Off
16 AX, 250 V~
Neon lamp current 2,7 mA
Housing screws made of stainless steel.

Can be illuminated using neon and incandescent lamp units - see accessories order no. 1611, 1613, 1614

■ with imprint „0" and „1"
■ with neon lamp unit for rotary control switch order no. 1611
■ for illumination and monitoring circuit
- with cable entry at top and bottom

■ with screw terminals

\section*{SOCKET OUTLETS}

SCHUKO-socket outlets


I on page 772
SCHUKO socket outlet with hinged cover and bayonet lock
dark grey/yellow, 4283 enhanced contact
protection IEC 60884-1
\(16 \mathrm{~A}, 250 \mathrm{~V} \sim\)
Housing screws made of stainless steel.
For SCHUKO right angle plug with bayonet lock order no. 4631

Connection terminals IEC 60884-1 (i)

■ for SCHUKO right angle plug with bayonet lock
- with cable entry at top and bottom
- with screw terminals

SCHUKO-plugs


SCHUKO right angle plug with bayonet lock dark grey/yellow 4631
\(16 \mathrm{~A}, 250 \mathrm{~V} \sim\)
For SCHUKO socket outlet with hinged cover and bayonet lock order no. 4283

■ for interlocked SCHUKO socket outlet
■ with threaded joint dia. 15.2 mm (PG 9)
- with screw terminals

Order no.

PILOT LAMPS
Pilot lamp E 14


Pilot lamp E14
dark grey 5152

250 V~
Incandescent lamp power max. 3 W ;
Lamp base length max. \(23,5 \mathrm{~mm}\)
Housing screws made of stainless steel.
Cover order no. 1241 ..
Can be illuminated using incandescent lamp E14 see module inserts order no. 1610 03, 161013
Can be illuminated using LED lamp E14 see module inserts order no. 1679 ..
- with cable entry at top and bottom

■ with screw terminals
\begin{tabular}{|lll} 
Accessories & & \\
& Cover for pilot lamp E14 & \\
& clear transparent & \(\mathbf{1 2 4 1}\) \\
red transparent & \(\mathbf{1 2 4 1} \mathbf{0 1}\) & 10 \\
& yellow transparent & \(\mathbf{1 2 4 1} \mathbf{0 2}\) \\
green transparent & \(\mathbf{1 2 4 1 0 3}\) & 10 \\
& &
\end{tabular}

For pilot lamp E14 order no. 5152

\section*{ACCESSORIES}

Neon lamp units
Neon lamp unit for rotary control switch
white, 2pole group 1-0-2, 1611
\(16(5) \mathrm{A}, 250 \mathrm{~V} \sim\)
\begin{tabular}{lll}
\multicolumn{4}{l}{ Incandescent lamp units } \\
\hline & Incandescent lamp unit \\
& for rotary control switch & \\
& yellow, \(12 \mathrm{~V}, 65 \mathrm{~mA}\) & \(\mathbf{1 6 1 3}\) \\
& green, \(24 \mathrm{~V}, 35 \mathrm{~mA}\) & \(\mathbf{1 6 1 4}\)
\end{tabular}

For control rotary switch with red lens order
no. 3142, 3146
Entries/connectors


Combination connector
black 1808 10

■ to combine devices


Combination connector
black

■ to combine IP44 devices with IP66 devices


\section*{Cable entry}
black, for 1 cable 1807
10

\section*{Surface-mounted}

\section*{Surface-mounted system}

An optimal solution for installation in dry rooms

\begin{tabular}{lc} 
Switches/Push-buttons & \(492-493\) \\
\hline \begin{tabular}{l} 
Combinations switch/socket \\
(with earth contact)
\end{tabular} & \(493-494\) \\
\hline Socket outlets (with earth contact) & 494 \\
\hline \begin{tabular}{lc} 
Combinations switch/socket \\
(without earth contact)
\end{tabular} & 495 \\
\hline Socket outlets (without earth contact) & 495 \\
\hline Pilot lamps & 496 \\
\hline Communication technics & 496 \\
\hline Accessories
\end{tabular}


Order no.


\section*{Rockers switch}
white, glossy, double 300840 change-over, isolated input terminals
\(10 \mathrm{AX}, 250 \mathrm{~V} \sim\)

Self-extinguishing base plate see accessories order no. 105250
- with cable and duct entry

■ knock out opening for entry at top and bottom
■ with screw terminals


\section*{Rockers switch}
white, glossy, double
61300840
10
change-over, isolated
input terminals
polar white, glossy, double change-over, isolated input terminals

61300849
\(10 \mathrm{AX}, 250 \mathrm{~V} \sim\)

Self-extinguishing base plate see accessories order no. 105250

■ knock out opening for entry at top and bottom
■ with screw terminals

\section*{Pullcord switches}


Pullcord switch
white, glossy, 390640
change-over
10 AX, 250 V~
Pullcord connection 12 cm
Self-extinguishing base plate see accessories order no. 105250

■ with cable and duct entry
■ knock out opening for entry at top and bottom
- for wall and ceiling mounting
- with plug-in terminals


Pullcord switch
white, glossy, change- 6139064010
over
over
polar white, glossy,
61390649
10
change-over
10 AX, 250 V~
Pullcord connection 12 cm
For wall and ceiling mounting.
Self-extinguishing base plate see accessories order no. 105250

■ knock out opening for entry at top and bottom
- with plug-in terminals

Order no.

\section*{PUSH-BUTTONS}

Rocker push-buttons


Rocker push-button with 5 lenses attached white, glossy, change- 500640 over contact, usable as
NC or NO
\(10 \mathrm{~A}, 250 \mathrm{~V} \sim\)
I on page T70 Lenses with symbol for light, bell, door and neutral in clear, also neutral in red transparent.

Self-extinguishing base plate see accessories order no. 105250
Can be illuminated using neon and incandescent lamp units with N-terminal see module inserts order no. 1605 10, 1675 .., 1676 ..

■ for illumination and monitoring circuit
■ with cable and duct entry
■ knock out opening for entry at top and bottom
- with plug-in terminals

\section*{COMBINATIONS}

Combination switch/socket outlet


Combination rocker switch/SCHUKO socket outlet
\begin{tabular}{lll} 
white, glossy & \(\mathbf{4 7 9 6 4 0}\) & 5 \\
white, glossy & \(\mathbf{6 1 4 7 9 6 4 0}\) & 5 \\
polar white, glossy & \(\mathbf{6 1 4 7 9 6 4 9}\) & 5
\end{tabular}

16 A, 250 V~
Switching current 10 AX

Self-extinguishing base plate see accessories order no. 105440
\(\square\) for vertical mounting
■ change-over switch and socket outlet connectable separately
- with hollow base
- with cable and duct entry

■ knock out opening for entry at top and bottom
- with plug-in terminals


Combination rockers switch/SCHUKO socket outlet
\begin{tabular}{lll} 
white, glossy & \(\mathbf{6 1 4 7 9 4 4 0}\) & 5 \\
polar white, glossy & \(\mathbf{6 1 4 7 9 4 4 9}\) & 5
\end{tabular}
\(16 \mathrm{~A}, 250 \mathrm{~V} \sim\)
Switching current 10 AX
Self-extinguishing base plate see accessories order no. 105440
\(\square\) for vertical mounting
\(■\) series switch and socket outlet connectable separately
- with hollow base
\(■\) knock out opening for entry at top and bottom
\(\square\) with plug-in terminals

Order no.
Packing
unit
\begin{tabular}{lrr}
\begin{tabular}{l} 
Combination rocker switch/SCHUKO socket \\
outlets
\end{tabular} \\
\begin{tabular}{lrr} 
white, glossy & \(\mathbf{6 1 4 0 2 6 4 0}\) & 5 \\
polar white, glossy & \(\mathbf{6 1 4 0 2 6 4 9}\) & 5 \\
\(16 \mathrm{~A}, 250 \mathrm{~V} \sim\)
\end{tabular} \\
\begin{tabular}{l} 
Switching current 10 AX
\end{tabular} & \\
\end{tabular}

■ change-over switch and socket outlet connectable separately
- without hollow base
\(■\) knock out openings for entries at top, bottom and side
■ switch with plug-in terminals, socket outlet with screw terminals

\section*{SOCKET OUTLETS}

SCHUKO-socket outlets


\section*{SCHUKO socket outlet}
\begin{tabular}{lll} 
white, glossy & \(\mathbf{4 7 0 0 4 0}\) & 10 \\
polar white, glossy & \(\mathbf{4 7 0 0 4 9}\) & 10
\end{tabular}
polar wite, glossy 470030
white, glossy, enhanced 47003010
contact protection IEC
60884-1
I on page T70
polar white, glossy,
470039
enhanced contact protection IEC 60884-1
\(16 \mathrm{~A}, 250 \mathrm{~V} \sim\)

Self-extinguishing base plate see accessories order no. 105250

Connection terminals IEC 60884-1
- with hollow base
\(\square\) with cable and duct entry
\(\square\) knock out opening for entry at top and bottom
■ with plug-in terminals


1 on page T70

\section*{SCHUKO socket outlet}
white, glossy, with hollow 40004010
base
white, glossy, without 400050
hollow base
white, glossy, with hollow 40003010
base, enhanced contact protection IEC 60884-1
16 A, 250 V~

Self-extinguishing base plate see accessories order no. 105250

Connection terminals IEC 60884-1
- with hollow base

■ with cable and duct entry
\(■\) knock out opening for entry at top and bottom
■ with screw terminals

Order no.
Packing
unit
SCHUKO-socket outlets with safety device


SCHUKO socket outlet with overvoltage protection and labelling field
white, glossy 400641
1
\(16 \mathrm{~A}, 250 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}\)
Labelling field height arranged for 6 mm P-touch
I on page T33
strips.
Self-extinguishing base plate see accessories order no. 105250

Overvoltage protection to EN 61643 and VDE
0675-6, -11
Connection terminals IEC 60884-1
■ with imprint
■ with indicator LED for „on/error"
\(■\) with acoustic fault signal
■ with hollow base
■ knock out opening for entry at top and bottom
■ with screw terminals

\section*{SCHUKO-socket outlets}


Double SCHUKO socket outlet
\begin{tabular}{lll} 
white, glossy & \(\mathbf{4 7 2 1 4 0}\) & 10 \\
white, glossy, enhanced & \(\mathbf{4 7 2 1 3 0}\) & 10
\end{tabular}

10
contact protection
IEC 60884-1
polar white, glossy 47214910
polar white, glossy, 472139
enhanced contact
protection IEC 60884-1
\(16 \mathrm{~A}, 250 \mathrm{~V} \sim\)

Self-extinguishing base plate see accessories order no. 105340

Connection terminals IEC 60884-1
- for vertical and horizontal mounting

■ with hollow base
- with cable and duct entry

■ knock out opening for entry at top and bottom
■ with plug-in terminals
\begin{tabular}{lcl} 
3gang SCHUKO socket outlet & \\
white, glossy & 4040 & 5 \\
polar white, glossy & 404049 & 5
\end{tabular}
polar white, glossy 404049
16 A, 250 V~

Self-extinguishing base plate see accessories order no. 1055

Connection terminals IEC 60884-1
- for vertical and horizontal mounting

■ with hollow base
\(■\) knock out openings for entries at top, bottom and side
■ with screw terminals

Order no.
Packing
unit

\section*{COMBINATIONS}

Combination switch/socket outlet


Combination rocker switch/socket outlet without earth contact
white, glossy \(\quad 61673640 \quad 5\)
polar white, glossy \(61673649 \quad 5\)
16 A, 250
Switching current 10 AX ;
Mirror depth 5,9 mm
Self-extinguishing base plate see accessories order no. 105440
- socket outlet 2pole
- for vertical mounting
- change-over switch and socket outlet connectable separately
knock out opening for entry at top and bottom
- with hollow base
- with plug-in terminals


\section*{Combination rockers switch/socket outlet} without earth contact
\begin{tabular}{lll} 
white, glossy & \(\mathbf{6 1 6 7 3 5 4 0}\) & 5 \\
polar white, glossy & \(\mathbf{6 1 6 7 3 5 4 9}\) & 5
\end{tabular}
\(16 \mathrm{~A}, 250 \mathrm{~V} \sim\)
Switching current 10 AX;
Mirror depth \(5,9 \mathrm{~mm}\)
Self-extinguishing base plate see accessories order no. 105440
- socket outlet 2pole
\(\square\) for vertical mounting
\(\square\) series switch and socket outlet connectable separately
- knock out opening for entry at top and bottom
- with hollow base
- with plug-in terminals

\section*{SOCKET OUTLETS}

Socket outlets without earth contact
Socket outlet without earth contact
\begin{tabular}{lll} 
white, glossy & \(\mathbf{6 1 6 0 0 0 4 0}\) & 10 \\
polar white, glossy & \(\mathbf{6 1 6 0 0 0 4 9}\) & 10 \\
\(16 \mathrm{~A}, 250 \mathrm{~V} \sim\) & & \\
Mirror depth \(5,9 \mathrm{~mm}\) & &
\end{tabular}

Self-extinguishing base plate see accessories order no. 105250

Connection terminals IEC 60884-1
- 2pole

■ knock out opening for entry at top and bottom
- with hollow base
- with screw terminals

Order no.
\begin{tabular}{|c|c|}
\hline \multirow[t]{7}{*}{} & Double socket outlet without earth contact \\
\hline & white, glossy 61672140 \\
\hline & polar white, glossy \(\quad 61672149\) \\
\hline & \begin{tabular}{l}
16 A, 250 V~ \\
Mirror depth 5,9 mm
\end{tabular} \\
\hline & Self-extinguishing base plate see accessories order no. 105340 \\
\hline & Connection terminals IEC 60884-1 \\
\hline & \begin{tabular}{l}
■ 2pole \\
■ for vertical and horizontal mounting \\
■ knock out opening for entry at top and bottom \\
■ with hollow base \\
■ with plug-in terminals
\end{tabular} \\
\hline \multirow[t]{12}{*}{} & 3gang socket outlet without earth contact \\
\hline & white, glossy 616040 \\
\hline & polar white, glossy 61604049 \\
\hline & \(16 \mathrm{~A}, 250 \mathrm{~V} \sim\) \\
\hline & Mirror depth 4,5 mm \\
\hline & Self-extinguishing base plate see accessories order no. 1055 \\
\hline & Connection terminals IEC 60884-1 \\
\hline & - 2pole \\
\hline & - for vertical and horizontal mounting \\
\hline & \(\square\) knock out openings for entries at top, bottom and side \\
\hline & \(\square\) with hollow base \\
\hline & \(\square\) with screw terminals \\
\hline
\end{tabular}

\section*{Socket outlets with earth pin}


\section*{Socket outlet with earth pin}
white, glossy, enhanced 67600640
10 contact protection IEC
60884-1
\(16 \mathrm{~A}, 250 \mathrm{~V} \sim\)
I on page T6
Self-extinguishing base plate see accessories order no. 105250

Connection terminals IEC 60884-1
- 2pole + earth
- with hollow base
\(\square\) with cable and duct entry
■ with screw terminals

Order no.
Packing
Order no.
Packing
unit


Push-buttons and pilot lamps
Push-button and pilot lamp E10
white, glossy, NO 510040 10
contact
250 V~
Momentary-contact current max. 2 A;
Incandescent lamp power max. 2 W

\section*{1 on page T5}

Self-extinguishing base plate see accessories order no. 105250
Knob for push-button and pilot lamp E10 see module inserts order no. 1279 ..
Cover for push-button and pilot lamp E10 see
module inserts order no. 1280, 1281, 1282, 1283
Can be illuminated using neon lamp E10 see module inserts order no. 1601
Can be illuminated using LED lamp E10 see module inserts order no. 1678 ..
- for illumination and monitoring circuit
\(■\) with cable and duct entry
- knock out opening for entry at top and bottom

■ with screw terminals

\section*{Pilot lamp E 14}


Pilot lamp E14
white, glossy 513040
250 V~
Incandescent lamp power max. 3 W ;
Lamp base length max. \(23,5 \mathrm{~mm}\)
Self-extinguishing base plate see accessories order no. 105250
Cover for pilot lamp E14 see module inserts order no. 1220, 1230, 1231, 1232
Can be illuminated using incandescent lamp E14 see module inserts order no. 1610 ..
Can be illuminated using LED lamp E14 see module inserts order no. 1679.

■ with cable and duct entry
■ knock out opening for entry at top and bottom ■ with screw terminals

\section*{COMMUNIGATION TECHNICS}

Data connector housings


Data connector housing with labelling field
white, glossy
Labelling field height arranged for 9 mm P-touch
strips.
Self-extinguishing base plate see accessories order
no. 105250
Mounting plates see acessories order no. 1111 ..,
1112 ..
- for mounting plates
\(\square\) with cable and duct entry
- 1 knock out opening for entry at top

\section*{ACCESSORIES}

Bottom plates

\begin{tabular}{lrl} 
Self-extinguishing base plate & \\
\begin{tabular}{lrl} 
white, for 1gang devices & \(\mathbf{1 0 5 2 5 0}\) & 10 \\
white, for double & \(\mathbf{1 0 5 3} \mathbf{4 0}\) & 10 \\
\begin{tabular}{lcc} 
socket outlets \\
white, for 2gang \\
combinations
\end{tabular} & \(\mathbf{1 0 5 4} \mathbf{4 0}\) & 10 \\
\begin{tabular}{l} 
white, for 3gang \\
socket outlets
\end{tabular} & \(\mathbf{1 0 5 5}\) & 10 \\
\hline
\end{tabular} l
\end{tabular}
- with imprint

■ suitable for mounting on flammable base surface

\section*{Entries/connectors}

\section*{Cable and duct entry}
\begin{tabular}{lll} 
white & \(\mathbf{1 8 1 3}\) & 10 \\
polar white & \(\mathbf{1 8 1 3} \mathbf{0 9}\) & 10 \\
black & \(\mathbf{1 8 1 3} \mathbf{0 5}\) & 10
\end{tabular}

Also suitable for surface-mounted frames and housings from the flush-mounted ranges.
- for wire or \(15 \times 15 \mathrm{~mm}\) cable duct
\begin{tabular}{lll}
\hline Tube entry & & \\
polar white & \(\mathbf{1 8 1 7 0 9}\) & 10 \\
black & \(\mathbf{1 8 1 7 0 5}\) & 10
\end{tabular}

Distance from wall to centre of pipe 16 mm
Suitable ducts for surface-mounted installation can be purchased at www.fraenkische-elektro.de

Suitable for surface-mounted frames and housings of the flush-mounted range.

■ for tubes with \(\varnothing 15.2 \mathrm{~mm}\) (PG 9) and M 16
\(\square\) for tubes with coupling dia. 20.5 mm (PG 13.5) and M 20

\title{
Connecting systems
}

\section*{Connector boxes and connecting devices}

Whether for cookers, large-scale kitchens, industry, building sites or other applications connection boxes and connecting devices are needed everywhere. Berker offers a broad spectrum of products in response to the many and varied demands of everyday use.
Available systems:
- Electric range connection box
- CEE industrial connecting devices
- SCHUKO rubber connecting devices
- SCHUKO connecting devices

\begin{tabular}{lc} 
Range connector boxes & 500 \\
\hline Perilex connecting devices & 500 \\
\hline CEE connecting devices & \(500-502\) \\
\hline Accessories & 502 \\
\hline SCHUKO connecting devices & 502
\end{tabular}

Order no.


Perilex socket outlet surface-mounted 16 A with hinged cover
grey \(5510 \quad 10\)
\(16 \mathrm{~A}, 400 \mathrm{~V}\) ~
5pole - \(3 \mathrm{P}+\mathrm{N}+\mathrm{PE}\)

VDE 0100-731 and DIN 49445-48
IP44
- with screw terminals


Perilex plug 16 A
white 5700
10
\(16 \mathrm{~A}, 400 \mathrm{~V} \sim\)
5pole \(-3 P+N+P E\)

VDE 0100-731 and DIN 49445-48
- duroplastic housing
- with screw terminals

Perilex right angle plug 16 A
white 5740
10
\(16 \mathrm{~A}, 400 \mathrm{~V} \sim\)
5pole - \(3 P+N+P E\)

VDE 0100-731 and DIN 49445-48
■ duroplastic housing
■ with screw terminals


CEE CONNECTING DEVICES

VDE 0100-731 and DIN 49445-48
■ with screw terminals
ll box
10
\(16 \mathrm{~A}, 400 \mathrm{~V}\)
5pole \(-3 P+N+P E\)

VDE 0100-731 and DIN 49445-48
IP44
■ with flush-mounted box
■ with screw terminals


CEE socket outlet 3pole flush-mounted 16 A with hinged cover
polar white
568401
16 A, 6 h, 250 V~, 50/60 Hz
3pole \(P+N+P E\)

IP44

- with flush-mounted box

■ with screw terminals
\begin{tabular}{ll}
\hline & \begin{tabular}{l} 
CEE socket outlet 3pole surface-mounted \(16 \mathbf{A}\) \\
with hinged cover \\
light grey
\end{tabular} \\
\(16 \mathrm{~A}, 6 \mathrm{~h}, 250 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}\) \\
3pole \(\mathrm{P}+\mathrm{N}+\mathrm{PE} ;\) \\
Conductor diameter max. 18 mm
\end{tabular}

IP44
■ with cable entry
- with screw terminals

CEE socket outlet 3pole built-in 16 A with
hinged cover
polar white
\(16 \mathrm{~A}, 6 \mathrm{~h}, 250 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}\)
\begin{tabular}{l} 
3pole \(\mathrm{P}+\mathrm{N}+\mathrm{PE}\)
\end{tabular}

IP44
■ built-on socket outlet
■ suitable e.g. for switch cabinet door
- suitable for cable duct, type 68 and 74 flushmounted and hollow-wall boxes
- with screw terminals


CEE right angle plug 3pole 16 A grey/blue 578101 10
\(16 \mathrm{~A}, 6 \mathrm{~h}, 250 \mathrm{~V}\), \(50 / 60 \mathrm{~Hz}\)
3pole P + N + PE
IP44
\(\square\) with internal anti-kink protection

■ with screw terminals


CEE socket outlet 3pole flush-mounted 32 A with hinged cover
polar white
578601
5
32 A, 6 h, 250 V~, 50/60 Hz
3pole P + N + PE
IP44
\(\square\) with flush-mounted box
\(\square\) with screw terminals

CEE socket outlet 3pole surface-mounted 32 A with hinged cover
light grey 5784015

32 A, 6 h, 250 V~, 50/60 Hz
3pole \(\mathrm{P}+\mathrm{N}+\mathrm{PE}\);
Conductor diameter max. 18 mm

IP44
- with cable entry
- with screw terminals
\begin{tabular}{ll}
\hline & \begin{tabular}{l} 
CEE right angle plug 3pole 32 A \\
grey/blue \(\quad 578301\)
\end{tabular} \\
\(32 \mathrm{~A}, 6 \mathrm{~h}, 400 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}\) \\
\(3 p o l e \mathrm{P}+\mathrm{N}+\mathrm{PE}\)
\end{tabular}


CEE socket outlet 5pole flush-mounted 16 A with hinged cover
polar white 5680015
\(16 \mathrm{~A}, 6 \mathrm{~h}, 400 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}\)
5pole 3 P + N + PE

IP44
■ with flush-mounted box
\(\square\) with screw terminals


CEE socket outlet 5pole surface-mounted 16 A with hinged cover
light grey 5580015

16 A, 6 h, \(400 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}\)
5pole \(3 \mathrm{P}+\mathrm{N}+\mathrm{PE}\);
Cable diameter max. 18 mm

IP44
- with cable entry

■ with screw terminals


CEE socket outlet 5pole built-in 16 A with hinged cover polar white 578501

5
\(16 \mathrm{~A}, 6 \mathrm{~h}, 400 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}\)
5pole \(3 P+N+P E\)

IP44
- built-on socket outlet

■ suitable e.g. for switch cabinet door
■ suitable for cable duct, type 74 flush-mounted and hollow-wall boxes
■ with screw terminals


CEE right angle plug 5pole 16 A
grey/red 578001
16 A, 6 h, 400 V~, \(50 / 60 \mathrm{~Hz}\)
5pole \(3 P+N+P E\)

IP44
■ with internal anti-kink protection
\(\square\) cable entry can be turned \(60^{\circ}\) to the left and right
- with screw terminals


CEE socket outlet 5pole flush-mounted 32 A with hinged cover
polar white 5682015
\(32 \mathrm{~A}, 6 \mathrm{~h}, 400 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}\)
5pole \(3 \mathrm{P}+\mathrm{N}+\mathrm{PE}\)

IP44
■ with flush-mounted box
■ with screw terminals

Order no.
Packing
unit
CEE socket outlet 5pole surface-mounted 32 A
with hinged cover
light grey
\(32 \mathrm{~A}, 6 \mathrm{~h}, 400 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}\)
5pole \(3 \mathrm{P}+\mathrm{N}+\mathrm{PE}\);
Conductor diameter max. 18 mm

IP44
\(\square\) with cable entry
\(\square\) with screw terminals


CEE socket outlet 5pole built-in 32 A
with hinged cover
polar white 5683015
\(32 \mathrm{~A}, 6 \mathrm{~h}, 400 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}\)
5pole \(3 \mathrm{P}+\mathrm{N}+\mathrm{PE}\)

IP44
- built-on socket outlet
\(\square\) suitable e.g. for switch cabinet door
■ also suitable for cable ducts
■ with screw terminals


CEE right angle plug 5pole 32 A
grey/red 578201
\(32 \mathrm{~A}, 6 \mathrm{~h}, 400 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}, 3 \mathrm{P}+\mathrm{N}+\mathrm{PE}\)

IP44
\(\square\) with internal anti-kink protection
■ with screw terminals

\section*{ACCESSORIES}

Wall boxes


CEE flush-mounted box
183001
5
Flush-mounted boxes installation depth 64 mm ; Bolt spacing 60 mm

\section*{SCHUKO CONNECTING DEVICES}

Solid rubber SCHUKO plug, heavy-duty design
black
4684
10
16 A, 250 V~
(i)

IP44
■ non-corrosive
- with sealing collar

■ can be screwed
■ with screw terminals

Order no.
Packing
unit


\section*{Berker Manufacture}

Manufacture (from latin manus - the hand and factura - to make, the production of) were originally in the main workshops for the production of silk and porcelain products. Today the term refers to industrialenterprises that produce goods to customers' individual specifications.



\section*{Berker Manufacture - real one-offs}

More and more people are following the trend of not following a trend. For these people there is Berker Manufacture. This is where we create switches that are a real blend of high-tech and handicraft, and that are utterly unique. We often design items together with architects and planners for a very particular property or for a special project. Some have their origins in the very special wishes of a property owner who is looking for something which he can simply not find on the market. It's a source of pride to us that we can make these wishes a reality. What matters is not speed but individuality. Every product is a one-off. And at least at distinctive as the environment for which it is made.



\section*{Berker Manufacture recent products from L+B 2010}

At last year's light + building trade fair, Berker once again showed what its Manufacture is capable of. Here we present a recent selection...


Berker Serie 1930 Porzellan made by Rosenthal, frame gold leaf-plated


Berker Serie 1930 Porzellan made by Rosenthal platinum-plated


Glaserie 1930, with porcelain toggle


Berker B. 7 Glas, Parsol bronze


Berker TS,
burnished brass


Berker TS,
black


Berker TS Crystal Ball,
black


Berker TS,
black, with socket outlet

\section*{Berker Manufacture how customised can switches be?}

Berker was founded in 1919 as a "Specialised Factory for Electrotechnical Devices". This description shows just how important it is for us to meet the special needs of our customers by providing custommanufactured products and tailored solutions. We have maintained this tradition up to the present day and call this aspect of our work Berker Manufacture.

Berker Manufacture is an expression of our philosophy of offering tailored solutions to meet the special needs of our customers - the right way.

To do this, we do not have to reinvent our switches. After all, it is not the technology that triggers the desire to stand apart, but rather the surface finish that gives the switches their individual character.

\section*{Special labelling - lettering and symbols}


Berker B. 7 Glas, with lettering


Berker S.1, with symbols and logo


From printing, colouring and surface treatment to special manufacturing techniques, there are many ways to make switches as individual as the customer requires.

In principle, all of our switch ranges can be given an individual look. Almost any surface design can be realised, regardless of how unusual it may be.

\section*{Colouring}


Berker B.IQ Glas, aluminium


Berker B.IQ Glas, black


Berker TS Crystal, black

\section*{The outstanding expertise of Berker Manufacture}

Berker Manufacture combines a wide selection of materials, colours and surface finishes. Here you will find just a small selection of the many possibilities. Let yourself be inspired!

\section*{Surface finish}


Berker K.5, chrome, glossy


Berker K.1, black high-gloss


Berker B.7, plastic, polar white matt

If you have questions about Berker Manufacture or already have a project in mind, please contact your regional repersentative for assistance.

\section*{Special processing}


Berker TS, with socket outlets


Berker TS brass with push button and room thermostat


Berker TS, special length, printed lettering

\section*{Berker TS Sensor Manufacture guided by your imagination}

You can use predefined lettering and symbols to customise the new Berker TS Sensor. But that is not all. Berker Manufacture can also assist you in realising your own personal ideas. If you have questions about the Berker TS Sensor or already have a project in mind, please contact your regional representative. They will be happy to assist you.


Berker TS Sensor
with graphical temperature display
Dark grey background colour, light grey labelling


Test marks and administrative marks

VDE test mark, all items of the Berker range for which this test mark is possible bear this mark.

Test mark Netherlands
Test mark Austria
Test mark Norway
Test mark France
(D)

Test mark Denmark
Test mark Italy
Test mark Sweden
Test mark Canada

Test mark Belgium
Test mark USA
Test mark Poland
Test mark Finland
Test mark Switzerland

ENEC stands for European Norms Electrical Certification. The number following the mark stands for the certifying body.
For instance, VDE: 10

Verification of increased voltage with stand capability for connecting devices to DIN 49400 and 49441, installation equipment made of shock-proof material for higher mechanical stress conditioning.

Safety power supply (diesel unit VDE 0107:1994-10), designated by green centre plate

Additional safety power supply (battery supported VDE 0170: 1994-10), designated by orange centre plate

Furniture construction/installation Devices can be mounted on surfaces with unknown flammable properties.

Flame resistant according to VDE 0606 T1: 1984-11, meets the requirements of VdS (Association of Property Insurers) for mounting on wood.

All items in this catalogue falling under CE regulations bear the CE marking on the packaging label and on the product itself.

RAL Determination of colour gradations of Deutsches Institut für Gütesicherung und Kennzeichnung e.V. (German Institute for Quality Assurance and Certification)

Electronic data processing, designated for special circuits by red centre plate.

Trademarks/brands
\(\underset{\rightarrow}{\text { SCHUKO }}\)
Registered trademark of SCHUKOWarenzeichenverband (SCHUKO trademark association) e.V.; designates socket outlets according to DIN VDE 0620-1 and DIN 49440. Terminals are also suitable as connector terminals.
\(\left[\begin{array}{c}\text { Rosty } \\ \text { freit }\end{array}\right]\) Registered trademark of Warenzeichenverband EDELSTAHL ROSTFREI (stainless steel trademark association).

E= Registered trademark of the European Installation Bus Association sc (EIBA), Brussels.

Registered trademark of PERILEX-Gemeinschaft e.V..

Protection classes/types

VDE radio suppression seal

IP
Protection Class 2 insulation
(international protection)
Designated according to DIN 40050, IEC 60529, the protection class of a device to prevent ingress of
foreign objects and moisture.
IP44 Protection against contact between energised parts and wires or similar larger than 1 mm diameter and splashing water from all directions. (contact-protected from 1 mm , splash-protected)

IP55 Protection against harmful dust deposits and against water jets from a nozzle directed toward the housing from all directions. (protected from dust and water jets)

IP66 Protection against dust deposits and strong water jets from all directions. (dustproof, waterproof)

Protection Class III

Explosion protection, zone 11

IP44-compatible, protection class IP44 can be achieved only by using the proper sealing set.

Application designations/symbols
Q Incandescent lamp


Fluorescent lamp
B 12 V halogen lamp
230 V halogen lamp


Electronic transformer
Conventional transformer
Hollow-wall box
Information designations
for products with separate technical data on following pages.
\(\sim\) Symbol for the type of residual electrical current.


Designation for \(-25^{\circ} \mathrm{C}\) to \(40^{\circ} \mathrm{C}\) temperature range.

AX \(\quad\) X = fluorescent lamp
rated current
\(\square\) see S. T8
Flush-mounted controller, installation height \(1,1 \mathrm{~m}\)

Flush-mounted controller, installation height 2.2 m
\(\boldsymbol{\mu} \quad\) Relay with microcontact
Opening diameter
H Semiconductor circuit element
\(\doteq\) Earth

Material characteristics
Berker products do not contain any materials made of PVC or halogen, with the exception of the sealing membrane and slider in the splash-protected surfacemounted range as well as the wall boxes of the built-in system.

Slider without halogen on request
The technical specifications given here are not binding. The operating manual supplied with the products must be observed in all cases.

Illustrations, particularly with regard to colour, size, equipment, performance characteristics of the products as well as circuit / connection diagrams, are not binding.

We reserve the right to make technical and formal changes to our products in the interest of technical progress.
\begin{tabular}{|c|c|c|c|}
\hline Switches/push-buttons/socket outlets & T3-T6 & Smoke detector & T45-T46 \\
\hline Timer & T7 & Radio bus & T47-T59 \\
\hline Dimmers & T8-T11 & SCHUKO socket outlet with RCD protection switch & T60 \\
\hline BLC/presence detectors & T11-T18 & Antenna technology & T61-T62 \\
\hline Controllers/Berker control & T19-T27 & Data/telecommunications & T63-T64 \\
\hline 1-10 V technology/DALI & T28-T29 & Audio/video technology & T65-T66 \\
\hline EVG's and Tronic transformers & T29-T31 & Scale drawings & T67-T73 \\
\hline Equipment data & T32 & & \\
\hline Overvoltage protection & T33 & Accessories & 589-590 \\
\hline Thermostats & T34-T35 & General terms and conditions & 591 \\
\hline RolloTec & T35-T42 & Instructions for cleaning and care & 592-593 \\
\hline Alarm central unit & T43-T44 & Product summary & 593-611 \\
\hline
\end{tabular}


Tool sizes for BERKER products with combination cross-head slotted
screws as fixings:
- Cross-head bits,

Type: Pozidriv®size 1.
Cross-head screwdriver:
Type: Pozidriv®size 1.
Slotted screwdriver:
Type: blade thickness 0.8 mm .

Contact screws:
- Cross-head bits,

Type: Pozidriv®size 2.
- Cross-head screwdriver:

Type: Pozidriv®size 2.
- Slotted screwdriver:

Type: blade thickness 1 mm . When using cordless screwdrivers, setting 1st gear, speed 1 at 0.5 Nm .

Illuminated rocker switches


Detachable contact lug. (for application see wiring diagrams).


Switch-off
Permanently lit
with change-over switch
(Neon lamp unit permanently lit)
© Remove detachable contact
lug from neon lamp unit


Insert here.
Same neon lamp unit for illuminated switches and monitoring switches.


Front view


\section*{Switch-off}

\section*{Illuminated}
with change-over switch
(Neon lamp unit lit when "Off")


The neon lamp unit can be inserted from the front and replaced without removing the switch.


Switch-off
Monitoring
with change-over switch
(Neon lamp unit lit when "On")
remove detachab lug from neon lamp unit

S.1/B.1/B.3/B. 7 rocker with red lens for illuminated switches or monitoring switches.

Neon and glow lamp units are available for light switches/push-buttons of programmes S.1/B.1/B.3/B.7 Glas, Modul 2, Q.1, Arsys, K.1, K.5, splash-protected flush-mounted IP44, Aquatec and ISO Panzer. Illuminated light switches not only offer effective guidance. Used as monitoring switches, they indicate active consumers. Not least, they help conserve energy and maintain security.

Workplace Regulations
The German Workplace Regulations ("ArbStattV") stipulate that existing installations must also be converted to illuminated light switches. With installation switches from the BERKER range there is no problem in this respect, as the neon lamp units are easily retrofitted and ensure the same illumination effect. In the case of splash-protected surface-mounted units the illumination cannot always be upgraded!

Monitoring and indicator lamps such as neon units and neon lamps wired in parallel with the switching contact lead to the contact opening distance not being reached.


\section*{Control switching for series rockers switches}

For series light switches in the ranges S.1/B.1/B.3/B. 7 Glas, Modul 2, K.1, K. 5 and Arsys, the series LED unit with N-terminal is available.
Used as a control switch, it shows the loads switched on for each series. Some important uses of this are safety and monitoring energy consumption.



N -terminal


Contact springs for easy snap-in mounting.


Snap on series LED unit from the rear.

Max. numbers of fluorescent lamps that can be switched.


\section*{1pole on/off with change-over switch}

!
When connecting energy-saving bulbs and inrush currants (EVG), consider the high inrush currents.
Check suitability Fit inrush current limiters if

\section*{2pole on/off 16 AX}


\section*{2pole on/off 10 AX}



\section*{Change-over switch}


\section*{Rocker push-buttons}




Rocker push-button (NOC)
permanently lit
! Remove detachable contact lug Any number of push-buttons can be connected in parallel. The neutral conductor must be brought through


Rocker push-button (NOC) monitoring ! Remove detachable contact ! lug from neon lamp unit.

\section*{Rocker push-buttons}


\section*{Rockers push-buttons}

\section*{Pullcord switches}


Push-button and light signal E10
3-step switch


\section*{Key switch}
for profile half cylinder


\footnotetext{
Key switch (change-over switch)
1 or 2 pole for profile half cylinder
}

Profile half cylinder


The NOC for the profile half cylinder can be adjusted by pressing in the pin on the side in \(45^{\circ}\) steps.
At key bit position \(315^{\circ}\) the key bit is guided in the engaging fork of the switch. The cover is not locked and the key can only be removed in the zero position (unswitched).
At locking steps \(90^{\circ}, 135^{\circ}\) and \(225^{\circ}\) the key bit is introduced adjacent to the engaging fork of the switch. After actuation, we key is turned back to the starting position and so can be is then locked and the switch cannot be dismantled without is then locked and the switch cannot be dismantled without

\section*{Hotel card switches}

The hotel card switch provides efficient energy use and a means of storing the hotel card in hotels or other locations, such as at the workplace. When the hotel card is withdrawn, power is cut to all the electrical consumers which are still in operation but no longer required, such as the lights (possibly with a delayed-off relay) and wall socket circuits (e.g. for TV etc.). For this, a load contactor is activated via the hotel card switch. When the hotel card is inserted, the contact is closed and the in-series load contactor switches the connected electrical consumers on.
Additionally, a check-back can be sent to reception and the room temperature can be lowered, for example. The illumination of the hotel card switch ensures safe operation even in the dark. As a flush-mounted insert, the hotel card switch cover order no. 505601 is used with neon lamp unit order no. 1675. The neon lamp unit is lit when the hotel card is not inserted. 10 A push-button inserts for hotel card switch covers are available on request.



When hotel card is not inserted, orientation lamp is on. Contact open.


\section*{International systems}


AM/AT/AZ/BA/BE/BF/BG/BI/BJ/BY/CF/CS/CZ/DE/ EE/EG/ER/ES/F/GE/GL/GR/HR/HU/ID/R/IS/T/KR/ KZ/LB/LT/LU/LV/MD/MK/MR/MZ/NL/NO/PE/PT/ PY/RO/RU/RW/SA/SE/SI/SO/SR/SY/TJ/TR/UA/UY/UZ 2pin. + earth
\(250 \mathrm{~V}_{\sim}, 16 \mathrm{~A}\)

\(\mathrm{AE} / \mathrm{AG} / \mathrm{BN} / \mathrm{BW} / \mathrm{CY} / \mathrm{GB} / \mathrm{GD} / \mathrm{GH} / \mathrm{GM} /\) HK/E/IQ/KE/KW/LR/MW/MT/MY/OM SLIZME/ZAZW BS 1363 part 2 \(250 \mathrm{~V} \sim, 13 \mathrm{~A}\)


CA/GT/GY/HN/HT/KP/LAMX PA/PH/PR/SV/TH/TW/US/NE NEMA 5-15 R 2pin. + earth


AD/BE/CG/Cl/CN/DJ/DZ/FR/GF GN/GP/KH/KM/MA/MG/ML/PL SK/SN/SY/TD/TG/TN/VN 2 pin. + earth
\(250 \mathrm{~V}_{\sim}, 16 \mathrm{~A}\)


DK/GL 2pin. + earth
\(250 \mathrm{~V}, 13 \mathrm{~A}\)


CH, type 13
2pin. + earth
2pin. + earth
\(250 \mathrm{~V} \sim, 10 \mathrm{~A}\)


AL/CL/ET/T/LY/SY 2pin. + earth


AO/N
\(250 \mathrm{~V}_{\sim}, 16 \mathrm{~A}\)
* = Non-polarised system (no specification for connection of external and neutral conductor)




 OM=Oman; PA=Panama; PE=Peru; PH=Philippines; PL=Poland; PR=Puerto Rico; PT=Portugal; PY=Paraguay; RO=Rumania; RU=Russia; RW=Rwanda; SA=Saudi Arabia; \(\mathrm{SE}=\) Sweden; SI=Slovenia; SK=Slovakia; SL=Sierra Leone \(S N=S\) enegal; \(S O=\) Somalia; SR=Surinam; SV=Salvador; SY=Syria; TD=Chad; TG=Togo; TH=Thailand; TJ=Tajikistan; TM=Turkmenistan; TN=Tunisia; TR=Turkey; TW=Taiwan; TZ=Tanzania; UA=Ukraine; US=USA; UY=Uruguay; UZ=Uzbekistan; VE=Venezuela; VN=Vietnam; YE=Yemen; ZA=Zambia; ZW=Zimbabwe

Loudspeaker inserts
450502
Loudspeaker socket outlet High End
with 2 plug connectors, 2 banana plugs and 2 metal type cable lugs gold-plated
cable lugs for cable cross-sections up to max. \(10 \mathrm{~mm}^{2}\) for 1 loudspeaker


Stereo loudspeaker socket outlet
with 2 integral speaker sockets to DIN 41529:1988-01
for 2 speakers
\(\triangle\) Operating conditions for electronic switches, dimmers and speed controllers
Rated load capacity when installed as single unit subject to:
- Ambient temperatures up to \(25^{\circ} \mathrm{C}\)
- Installation in solid stone wall
- The rated load of the Tronic transformer is always taken as the basis, not only the connected bulbs.


Differing conditions
minus \(10 \%\) per \(5^{\circ} \mathrm{C}\) above \(25^{\circ} \mathrm{C}\)
- minus 15\% in wood or chipboard walls
- minus 10\% external units in multiple combinations
- minus 20\% internal units in multiple combinations


\section*{The timer with display}

The timer permits programmed，timed switching of loads up to 1000 WNA．It is also possible to switch the lighting depending on brightness using a twilight sensor． With the astronomical function adjustable by \(\pm 1\) hour 59 minutes，the switch－on and switch－off times can be adjusted to the sunrise and sunset times for the specific location．With the timer function the lighting is switched on for a pre－set time between 1 minute and 23 hrs and 59 min ．By way of the extension unit inputs， a rocker button with 2 NOC（normally open）contacts can be used to switch on or off manually．Manual operation has priority at all times

\section*{Astronomical function}

By activating the astro programme the switch－on times that occur within the period of daylight are not executed until sunset．Pre－set switch－on times after sunset are retained．Switch－off times which occur after sunrise are executed as soon as sunrise occurs．Pre－set switch－off times after sunrise are retained．The adjacent drawing shows the astronomic curve from week number 12 to week number 40， incorporating a +1 hour adjustment for summer time（user must switch between winter and summer time）．

Twilight function（only with mounting with sensor connection）：
The twilight function is activated approximately 90 minutes before sunset（see astronomic curve）．Approximately 4 minutes after the brightness has fallen below the pre－set level，the lighting is switched on．

\section*{Features：}
－Operation via 4－button control pad
－ 2 independent programme memories for a total of 18 switching times
（e．g． 9 switch－on and 9 switch－off times）
－Timer function（countdown function）
Random function
－Astronomic function with individual adjustment facility \(\pm 1\) hour 59 minutes
－Adjustable twilight sensor
－Summer／winter time
－Operation of on／off extension unit inputs by rocker button with 2 NOCs
For intermediate and changeover switch circuits
Reset to factory default possible
－Power reserve up to 24 hours（maintenance－free without batteries）
－Manual operation possible at any time
\begin{tabular}{|c|c|}
\hline \multicolumn{2}{|l|}{} \\
\hline \multicolumn{2}{|l|}{Technical data
Nominal voltage} \\
\hline \multicolumn{2}{|l|}{Relay output 1 potential－free NOC，not suitable for isolating} \\
\hline \multicolumn{2}{|r|}{Tronic transformers 750 W（capacitive）} \\
\hline \multicolumn{2}{|l|}{\multirow[t]{2}{*}{Conv．transformers（ \(\geq 85 \%\) loading）incl．transformer power loss 500 VA（inductive） Fluorescent lamps uncompensated 500 VA，parallel compensated 400 VA（inductive）}} \\
\hline & \\
\hline \multicolumn{2}{|r|}{\multirow[t]{2}{*}{\begin{tabular}{l}
Duo circuit 1000 VA（inductive） \\
Mixed load；capacitive and inductive loads should not be mixed
\end{tabular}}} \\
\hline & \\
\hline Power consumption & 0.7 W \\
\hline Security & via 16 A circuit breaker \\
\hline Radio interference suppression & to EN 55015 \\
\hline Operating temperature & 0 to \(45^{\circ} \mathrm{C}\) \\
\hline Index of protection & IP20 \\
\hline Terminals & Screw－type terminals for max． \(2.5 \mathrm{~mm}^{2}\) or \(2 \times 1.5 \mathrm{~mm}^{2}\) \\
\hline Usable mountings & \(1735 . ., 1736 .\). or 1738 ．． \\
\hline Technical data & Timer with display Order－no．：1736．．or 1738．． \\
\hline Operating voltage & using insert order no． 2948 \\
\hline Switching time interval & min． 1 minute \\
\hline Reversing time & min .500 ms \\
\hline Switching times & max． 18 in 2 programme memories \\
\hline Accuracy & \(\pm 1\) minute per month \\
\hline Power reserve & approx． 24 hrs．（no batteries required） \\
\hline Setting range for twilight sensor（1738 only） & approx． 6 to 300 Lux \\
\hline Timer function（countdown） & 1 minute to \(23 \mathrm{hrs}\).59 min ． \\
\hline Random generator & \(\pm 15\) minutes \\
\hline Astro programme & adjustable by \(\pm 1\) hrs． 59 min ． \\
\hline Radio interference suppression & to EN 55015 \\
\hline Operating temperature & 0 to \(45{ }^{\circ} \mathrm{C}\) \\
\hline Index of protection & IP20 \\
\hline
\end{tabular}

\section*{Astro curve for timer}


\section*{The time switch easy}

The time switch easy permits programmed，timed switching of loads up to 1000 W ．By way of the extension unit inputs，a rocker button with 2 NOC（normally open）contacts can be used to switch on or off manually．Manual operation has priority at all times．

\section*{Programming Time switch Easy}

FFunction：+ \(>20 \mathrm{sec} \rightarrow\) Automatic summer／winter time changeover
with \(\triangle \rightarrow\)＂AU：＿1«＝Automatic ON
with \(⿴ 囗\)＂AU：＿0《＝Automatic OFF
\(\Lambda+\) Prog：\(>4 \mathrm{sec} . \rightarrow\) Quick saving of the switch－on time
for switching times \(1+3\) and deleting switch－on time for
switching times \(2+4\)
v + Progi＞ 4 sec．\(\rightarrow\) Quick saving of the switch－off time
for switching times \(1+3\) and deleting switching times \(2+4\)
he push－button functions Set and Esc：are available in the menus：
Set：Press \(\rightarrow\) Confirm input
Changes are saved on leaving the
sub－menu．
Escl！Press \(\rightarrow\) Esc to abort editing．
Changes are saved，the display reverts to normal mode．
After 2 minutes without any push－button activity the time switch reverts to
normal mode．
\begin{tabular}{lr} 
Technical data & Time switch Easy Order－no．：1735．． \\
Operating voltage & using insert order no． 2948 \\
Switching time interval & min． 1 minute \\
Reversing time & min． 500 ms \\
Switching times & 2 blocks each for Mo－Fr and Sa－So（ON／OFF） \\
Accuracy & \(\pm 30\) seconds per month \\
Power reserve & approx． 4 hrs．（no batteries required） \\
Radio interference suppression & to EN 55015 \\
Operating temperature & 5 to \(35^{\circ} \mathrm{C}\) \\
Index of protection & IP20
\end{tabular}


\section*{Energy saving by dimming}

Controlling the brightness levels of lights not only provides a pleasant ambience, it also prolongs the lives of the bulbs. In the low-voltage halogen field in particular, the compact dimensions of the bulbs can provide special design benefits for lighting which are further enhanced by dimming.
A further important aspect is energy saving, because in dimming mode much less power is drawn from the system and the lives of the bulbs are also greatly prolonged (see diagram). This can save a great deal of money.

\section*{Bulb life depending on voltage}

\(5 \%\) lower voltage corresponds to \(200 \%\) life

Universal dimmers teach themselves the load type during commissioning and automatically set the correct dimming principle.

\section*{Dimmer selection table}
\begin{tabular}{|c|c|c|c|c|c|}
\hline \begin{tabular}{l}
Dimmer type: \\
Load type:
\end{tabular} & Standard phase cut-on dimmers & Low voltage phase cut-on dimmers
\(\square\) & Phase cut-off dimmers & Universal dimmer & Speed controllers
\(\square\) \\
\hline Standard Incandescent lamps \(\square\) & \(R\) matches \(>\) OK, combination can be used! & \(R\) matches > OK, combination can be used! & \(R\) matches > OK, combination can be used! & \(R\) matches > OK, combination can be used! & No match > combination unsuitable \\
\hline 230 V halogen and incandescent lamps & \(R\) matches > OK. combination can be used! & R matches > OK, combination can be used! & \(R\) matches > OK, combination can be used! & \(R\) matches > OK, combination can be used! & No match > combination unsuitable \\
\hline 12 V halogen lamps with conventional dimmable transformer & No match > combination unsuitable & L matches > OK, combination can be used! & No match > combination unsuitable & L matches > OK, combination can be used! & No match > combination unsuitable \\
\hline 12 V halogen lamps with electronic transformer with capacitive characteristics & No match > combination unsuitable & No match > combination unsuitable & C matches > OK, combination can be used! & C matches > OK. combination can be used! & No match > combination unsuitable \\
\hline 12 V halogen lamps with electronic transformer with inductive characteristics \(\square\) & No match > combination unsuitable & L matches > OK, combination can be used! & No match > combination unsuitable & L matches > OK, combination can be used! & No match > combination unsuitable \\
\hline 12 V halogen lamps with electronic transformer with inductive or capacitive characteristics \(\square\) & No match > combination unsuitable & L matches > OK. combination can be used! & C matches > OK, combination can be used! & \(\mathrm{L}, \mathrm{C}\) matches > OK, combination can be used! & No match > combination unsuitable \\
\hline Motors & No match > combination unsuitable & No match > combination unsuitable & No match > combination unsuitable & ```
    No
    match >
combination
    unsuitable
``` & M matches > OK, combination can be used! \\
\hline
\end{tabular}
\(\boldsymbol{\varepsilon}\) Identifiers for dimmers and electronic switches (with semiconductor switching element) to DIN EN 60669-1/A2 and VDE 0632 part 1/A2.
\(\boldsymbol{\mu}\) Identifiers for switchgear with relays with micro-contact opening width to DIN EN 60669-1/A2 and VDE 0632 part 1/A2.
1. When using third-party transformers in conjunction with Berker Tronic dimmers and universal dimmers, malfunctions may occur because the components are not optimally attuned to each other.

A distinction is made between two dimming principles:
Phase cut-on dimmer for brightness control of:
Incandescent lamps, 230 V halogen lamps, fluorescent lamps 26 mm and 38 mm , and 12 V halogen lamps with conventional transformer.


At the beginning of each half-wave the dimmer blocks the current flow to the lamp, it is non-conducting. Only at the end of the time set by the user does the dimmer cut in again, and current is re-applied to the connected lamps. At the next sine zero, the dimmer again blocks the current flow. This process is repeated with each sine half-wave - that is, 100 times per second \((50 \mathrm{~Hz})\). During the time in which the dimmer blocks the current, no power is drawn from the mains or metered.

Phase cut-off dimmer for brightness control of:
Low-voltage halogen lamps with Tronic transformers, incandescent and halogen lamps.


The Tronic dimmer is activated when the sine half-wave passes through zero and deactivated again after the time set by the operator. At the next sine wave zero the Tronic dimmer releases the current flow again. This process is repeated with each sine half-wave - that is, 100 times per second ( 50 Hz ). In the time during which the Tronic dimmer blocks the current, no power is drawn from the system, and none is metered.



Technical data
Cominal voltage
Connected load
LV boosters built-in
Control principle
Noise
Fine-wire fuse
Radio interference suppression
Operating temperature

Rotary dimmer with soft lock



Changeover switching

Technical data
Nominal voltage
Nominal voltage
\begin{tabular}{lr} 
Connected load & 230 V Incandescent and halogen lamps \(60-600 \mathrm{~W},(60-450 \mathrm{~W})\) \\
Combination of specified load types \\
max. 10 \\
LV boosters built-in & Phase cut-on
\end{tabular}
(Rotary dimmer with soft-lock and setting knob Aquatec)
Intermediate switching

Noise Fine-wire fuse
Radio interference suppression
Operating temperature
Terminals

(Order no. 289505)
Low noise T 2.5 H 250 according to EN 55015 5 to \(25^{\circ} \mathrm{C}\) (see operating conditions, Page T6 Plug-in terminals for max. \(2.5 \mathrm{~mm}^{2}\) or \(2 \times 1.5 \mathrm{~mm}^{2}\)
Rotary dimmer with soft lock

\begin{tabular}{lr}
\hline Technical data & \\
Nominal voltage & \(230 / 240 \mathrm{~V} \sim, 50 \mathrm{~Hz}\) \\
Connected load & 230 V Incandescent \begin{tabular}{l} 
and halogen lamps \(100-1000 \mathrm{~W}\) \\
\\
Combinations of specified loads \\
LV boosters built-in \\
Dimming principle \\
Noise
\end{tabular} max. 10 \\
\hline
\end{tabular}

\section*{Rotary dimmer with soft-lock \\ Short-circuit-proof}

Overload protected
Radio interference suppression
Operating temperature
Terminals


Intermediate switching

Rotary LV dimmer with soft lock

\begin{tabular}{lr} 
Technical data & \(230 \mathrm{~V} \sim, 50 \mathrm{~Hz}\) \\
Nominal voltage & 230 V Incandescent and halogen lamps 20-500 W \\
Connected load & \begin{tabular}{r} 
Conv. transformers subject to min. \(85 \%\) of rated load. 20-500 VA \\
total power output including transformer power loss must \\
must not exceed 500 VA.
\end{tabular} \\
& Combination of specified load types \\
LV boosters built-in 10
\end{tabular}
Rotary dimmer LV with soft lock
Switching current for base load mains de-coupler
Dimming principle
Noise
Fine-wire fuse
Radio interference suppression
Operating temperature
Terminals


Dimmer/Mains decoupler

Universal rotary dimmer with soft lock and extension unit input


\section*{Technical data
Nominal voltage} Connected load

230 V Incandescent and halogen lamps 50-420 W 230 V~, \(50 / 60 \mathrm{~Hz}\)
(ohmic, phase cut-off) Tronic transformers 50-420 W (capacitive, phase cut-off) or Total power output 50-420 VA including transformer power loss must not exceed 420 VA (inductive, phase cut-on). not exceed 420 VA (inductive, phase cut-on).
Mixed load of specified load types, do not mix capacitive and inductive loads! Universal booster RMD Plus for phase cut-on max. 5 items á 420 VA

Tronic- or LV-boosters built-in depending upon type of load
Power consumption
Rotary dimmer / Tronic rotary dimmer and BLC Universal touch dimmer with mains de-coupler comfort RMD

Function: The mains de-couplers monitor the connected circuit and cut the mains power as soon as all consumers are switched off.
The cut-off circuit is monitored with 230 V DC.
This shuts off the electrical and electrical-magnetic alternating fields, as recommended by building biologists. When a consumer is switched on the mains voltage is restored.


Switch-off


Universal series touch dimmer


Conv. transformers subject to \(\mathrm{min} .85 \%\) of rated load. ! Total power output, including transformer power loss, must not exceed 420 VA

1 In order to prevent heating problems caused by mains overvoltages, there should be a \(1 / 2\) module gap between the inrush current limiters and other devices.

Depending on the mains de-coupler, no more than 1 control module may no more than 1 control module ress a BLC mash push-button for at east 200 ms in order to re-activate the mains de-coupler.


Operation with extension units
1. For a mixed load only ohmic / inductive or ohmic / capacitive is allowed per series
! For a mixed load with inductive loads the proportion of the ohmic loads must not exceed \(50 \%\) ! Risk of destruction if load outputs series a1 and a2 are connected in parallel. Risk of destruction, the electronic overheating protection only functions when a load is connected to series a In all cases only the series on which the short-circuit occurred is switched off.
Extension unit operation is only possible if a load is connected to series a1. Extension unit operation is only possible if a load is connected to series a1.
Operation:
The button for universal series touch dimmer is subdivided into 3 areas.
Left: Operation of series 1
Left: Operation of series 1
Right: Operation of series 2
Centre: Operation of series 1 and 2
Both series are always operated simultaneously via an extension unit.
Operation in the switched-off state:
Press briefly above (< 400 ms ): \(100 \%\) brightness or if a brightness is saved the memory is called up.
Long press below (> 400 ms ): Dimming to minimum brightness (slumber function).


Operation in the switched-on state:
Press briefly below ( 400 ms ) light is off
Long press above/below (> 400 ms ): Light is dimmed up / down. Long press over the entire surface (> 3 sec .) the current brightness is saved; (Delivery configuration: \(100 \%\) switch-on brightnesses)

\begin{tabular}{|c|c|}
\hline Universal series touch dimmer & order no. 2901 \\
\hline Switching on & Bulb-preserving soft startup \\
\hline Number of extension units & BLC extension unit unlimited \\
\hline Extension unit cable length & max. 100 m \\
\hline Noise generation & very low noise \\
\hline Short-circuit proof & Switch-off with autom. restart electron. fuse (maintenance-free) \\
\hline Overtemperature protection & autom. switch-off \\
\hline Radio interference suppression & according to EN 55015 \\
\hline Operating temperature & 5 to \(25^{\circ} \mathrm{C}\) (observe operating conditions page T6) \\
\hline Connecting terminals & Screw terminals for max. \(4 \mathrm{~mm}^{2}\) or \(2 \times 2.5 \mathrm{~mm}^{2}\) \\
\hline
\end{tabular}


LV power booster built-in
Short-circuit proo
Overtemperature protection
Radio interference suppression
Operating temperature
Connecting terminals
Minimum ceiling aperture for standard ceiling height of 78 mm
Dimensions ( \(\mathrm{W} \times \mathrm{H} \times \mathrm{D}\) )
! Above 3680 VA split phases. (ensure phase equality.) Observe the operating conditions on Page T6
! In case of excessive making limiters order no.: 0185.

Tronic touch dimmer built-in and Tronic booster built-in


Tronic touch dimmer built-in order no. 2943

der no. 2943
Rated voltage

Technical data
Rated voltage Rated voltage Connected load

Tronic booster built-in order no. 2868

Screw terminals \(0.75-4 \mathrm{~mm}^{2}\)
Screw terminals \(0.75-4 \mathrm{~mm}^{2}\)

Dimming principle
Switching on
 bulb-presening soft startup bulb-preserving soft startup Switch-off with autom. restart within

Overtemperature protection Radio interference suppression
Operating temperature ature
als 230 V incandescent lamps and halogen lamps \(50-700 \mathrm{~W}\) Tronic transformers 50-700 W Mixed load of the specified load types, do not mix capacitive and inductive loads! Tronic boosters built-in max. 10 total

\section*{Switching on} Switching on
Noise generation Noise generation
Short-circuit proof
-
bulb-preserving soft startup

Overtemperature protection
Radio interference suppression Operating temperature Connecting terminals Minimum ceiling aperture for standard ceiling Screw terminals \(0.75-4 \mathrm{~mm}^{2}\) Dimensions (W \(\times H \times D\) )

Universal touch dimmer RMD Plus and universal booster RMD Plus


to other ext
sion units

to other ex
sion units

max. 5/10 booster depending on the
dimmer principle


\section*{\begin{tabular}{l}
945 \\
\(-: 75311\) \\
753 \\
\hline
\end{tabular}}
\begin{tabular}{|c|c|}
\hline & \begin{tabular}{l}
principle phase cut-on or phase cut-off). \\
Keep with several dimmers and boosters a minimum distance of 1 RMD modul.
\end{tabular} \\
\hline Order no.: & Usable dimmer types \\
\hline 2874 & Tronic rotary dimmer with soft lock \\
\hline 2943 & Tronic touch dimmer built-in \\
\hline 2861.. and 2834.. & Universal rotary dimmer with soft lock \\
\hline 2902 & BLC universal touch dimmer \\
\hline 016701 & Universal touch dimmer RMD Plus \\
\hline 0181 & Universal radio dimmer built-in \\
\hline 94550100 & Radio universal dimmer RMD \\
\hline 75311007 & Universal dim actuator 1 gang 50-500 WNA RMD \\
\hline 75312007 & Universal dim actuator 2gang \(2 \times 300\) W/VA RMD \\
\hline 75314017 & Universal dim actuator 4 gang \(4 \times 210\) W/VA RMD \\
\hline
\end{tabular}
ohmic/ind. ohmsch/kap. In mixed load configurations only ohmic/inductive
or ohmic/ capacitive is permitted. For mixed loads with inductive loads, the proportion of ohmic loads may not exceed 50 \%!
A maximum of \(5 / 10\) RMD Plus boosters may be connected to one dimmer (depending on the dimmer principle phase cut-on or phase cut-off). Keep with several dimmers and boosters a minimum distance of 1 RMD modul.

\section*{\(\begin{array}{ll}\text { Order no.: } & \text { Usable dimmer types } \\ 2874 & \text { Tronic rotary dimmer with soft lock }\end{array}\)}

2943 .. and 2834.. Universal rotary dimmer with soft lock
2902 .. and 2834.. Universal rotary dimmer with sot
\(016701 \quad\) Universal touch dimmer RMD Plus 94550100 Radio universal dimmer RMD 75312007 Universal dim actuator 2gang \(2 \times 300\) W/NA RMD 5314017 Universal dim actuator 4gang \(4 \times 210\) W/NA RMD
max. 5/10 boosters depending on the
dimmer principle 016501
\begin{tabular}{|c|c|}
\hline Technical data & Universal booster RMD Plus order no. 016501 \\
\hline Nominal voltage & \(230 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}\) \\
\hline \begin{tabular}{rr} 
Connected load & 230 V In \\
& Tota \\
& Mixed load
\end{tabular} & and halogen lamps 200-500 W (ohmic, phase cut-off) rmers 200-500 W (capacitive load, phase cut-off) or nv. transformers subject to min. \(85 \%\) of rated load. 200-420 VA including transformer power loss must not exceed 420 VA (inductive load, phase cut-on). ad types, do not mix capacitive and inductive loads! \\
\hline Load cable length & max. 100 m \\
\hline Control cable length & max. 100 m \\
\hline Universal booster RMD Plus & total for phase cut-off max. 10 items á 500 W total for phase cut-on max. 5 items á 420 VA \\
\hline Dimming principle & Phase cut-on or cut-off depending on activation \\
\hline Switch-on & Bulb-preserving soft start-up \\
\hline Noise & Very low noise \\
\hline Short-circuit-proof & Cut-out with auto. restart Electronic protection (no change-over) \\
\hline Overheating protection & by means of autom. cut-out \\
\hline Radio interference suppression & to EN 55015 \\
\hline Operating temperature & -5 to \(45{ }^{\circ} \mathrm{C}\) \\
\hline Connecting terminals & Screw-type terminals 0.75 to \(4 \mathrm{~mm}^{2}\) \\
\hline RMD & 2 modules \\
\hline Dimensions ( \(\mathrm{W} \times \mathrm{H} \times \mathrm{D}\) ) & \(36 \times 90 \times 70 \mathrm{~mm}\) \\
\hline Height from DIN rail & 63 mm \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|}
\hline  & BLC push-button & BLC radio push-button & BLC motion detector & BLC motion detector Comfort & \begin{tabular}{l}
BLC presence detectors with constant light control \\
170110
\end{tabular} \\
\hline BLC Triac switch insert LV 50-400 WNA & Switching & \begin{tabular}{l}
Switching \\
Radio remote control Light scenes (On/Off)
\end{tabular} & Switching & \begin{tabular}{l}
Switching \\
Step operation with immunity time Digital mode of operation (1789 xx additional functions e.g. pre-warning of switch-off)
\end{tabular} & Switching Light control \\
\hline BLC Tronic switch insert 50-420 W & Switching & \begin{tabular}{l}
Switching \\
Radio remote control Light scenes (On/Off)
\end{tabular} & Switching & Switching Step operation with immunity time Digital mode of operation (1789 xx additional functions e.g. pre-warning of switch-off) & Switching Light control \\
\hline BLC relay switch insert 2300 W/NA & Switching & \begin{tabular}{l}
Switching \\
Radio remote control Light scenes (On/Off)
\end{tabular} & Switching & \begin{tabular}{l}
Switching \\
Step operation with immunity time Digital mode of operation (1789 xx additional functions e.g. pre-warning of switch-off)
\end{tabular} & Switching Light control \\
\hline BLC relay switch insert with potential-free contact & Switching & Switching Radio remote control Light scenes (On/Off) & Switching & \begin{tabular}{l}
Switching \\
Step operation with immunity time Digital mode of operation (1789 xx additional functions e.g. pre-warning of switch-off)
\end{tabular} & Switching Light control \\
\hline BLC relay switch insert HLK 1000 WNA | 800 WNA & Switching + HLK contact day-time-controlled & \[
\begin{aligned}
& \text { Switching } \\
& \text { + HLK contact day- } \\
& \text { time-controlled } \\
& \text { Radio remote control } \\
& \text { Light scenes (only On/Off) }
\end{aligned}
\] & Switching + Brightness-independent HLK contact delay timecontrolled & \begin{tabular}{l}
Switching \\
Brightness-independent step operation with immunity time + Brightnessindependent HLK contact delay time-controlled Digital mode of operation (1789 xx additional functions)
\end{tabular} & Switching + HLK contact day-time-controlled Light control \\
\hline BLC touch dimmer LV 20-500 W/VA & Switching Dimming Switch-on brightness memory & \begin{tabular}{l}
Switching \\
Dimming \\
Switch-on brightness memory \\
Radio remote control Light scenes
\end{tabular} & Switching & \begin{tabular}{l}
Switching Switch-off pre-warning by 30 seconds' dimming process \\
Switch-on brightness memory Digital mode of operation (1789 xx additional functions)
\end{tabular} & Switching Dimming Constant light control \\
\hline BLC universal touch dimmer 50-420 WNA & Switching Dimming Switch-on brightness memory & \begin{tabular}{l}
Switching \\
Dimming \\
Switch-on brightness memory \\
Radio remote control Light scenes
\end{tabular} & Switching & Switching Switch-off pre-warning by 30 seconds' dimming process Switch-on brightness memory Digital mode of operation (1789 xx additional functions) & Switching Dimming Constant light control \\
\hline BLC touch control unit \(1-10 \mathrm{~V} / 700 \mathrm{~W}\) & Switching Dimming Switch-on brightness memory & \begin{tabular}{l}
Switching \\
Dimming \\
Switch-on brightness memory \\
Radio remote control Light scenes
\end{tabular} & Switching & \begin{tabular}{l}
Switching Switch-off pre-warning by 30 seconds' dimming process \\
Switch-on brightness memory Digital mode of operation (1789 xx additional functions)
\end{tabular} & Switching Dimming Constant light control \\
\hline \begin{tabular}{l}
BLC stair light trigger insert \\
293410
\end{tabular} & \begin{tabular}{l}
Switch-on Switch-off warning flashing \\
Use only in conjunction with stair light switch RMD Plus
\end{tabular} &  & \begin{tabular}{l}
Switch-on Switch-off warning flashing \\
Use only in conjunction with stair light switch RMD Plus
\end{tabular} & \begin{tabular}{l}
Switch-on Switch-off warning flashing Digital mode of operation \\
Use only in conjunction with stair light switch RMD Plus
\end{tabular} & \begin{tabular}{l}
Switch-on Switch-off warning flashing \\
Use only in conjunction with stair light switch RMD Plus
\end{tabular} \\
\hline BLC extension unit & Switching (dimming) Extension for BLC touch dimmer, switch inserts and 1-10 V touch control unit (or rocker switch "NO contact") Presence function On/Off Saving of switch-on brightness &  &  &  &  \\
\hline BLC controller extension unit &  &  & As active extension unit for BLC controller 180, BLC controller 180 Comfort and BLC presence detectors with constant light control & As active extension unit for BLC controller 180, BLC controller 180 Comfort and BLC presence detectors with constant light control Digital mode of operation (1789 xx additional functions) & As active extension unit for BLC controller 180, BLC controller 180 Comfort and BLC presence detectors with constant light control \\
\hline
\end{tabular}


BLC Triac switch insert LV for BLC button, BLC radio button, BLC presence detector and BLC controller



HI
\(!\)
Push-buttons (NOCs) can only be illuminated via phase and neutral conductor. Extension unit operation is only possible if the Cover fitted on the BLC Triac switch insert. with BLC controller or BLC presence detector on the BLC Triac switch insert.

\section*{BLC Triac switch insert LV}


Extension unit
Fine-wire fuse
Fine-wire fuse
Radio interference suppression
Operating temperature
Connecting terminals Connecting terminals

BLC extension unit and push-button (NOC) no. 2905 BLC controller extension units max 10 max. 100 m T 1.6 H 250 V to EN 55015
-20 to \(25^{\circ} \mathrm{C}\) (see operating conditions, Page T6)
Screw-type terminals for max. \(2.5 \mathrm{~mm}^{2}\) or \(2 \times 1.5 \mathrm{~mm}^{2}\)


BLC relay switch insert with potential-free contact for BLC button, BLC radio button, BLC presence detector and BLC controller


Basic circuit

\section*{Technical data}

Connected load potential-free suitable for extra-low voltage function (AC)
Minimum load
Extension units
Extension units


\section*{BLC relay switch insert HVAC}
© When energy-saving lamps and electronic ballasts are connected note high swith-on currents, if necessary use
making current inite order making curent initite order \(n 0.0185\). The potential-free contact is sultable for function extra-low Votage FELVV Galternating current!
Pushh buttons NO
neitra cond
conctor
Extension unit operation is only possible if there is a cover fitted on the BLC relay switch insert with potential-free contact. Use BLC controller extension unit only in combination with BLC controller or BLC presence detector on the BLC relay switch insert with potential-free contact.
Order no. 290610

\section*{BLC-_}

BLC relay switch insert HVAC for BLC button, BLC radio button, BLC presence detector and BLC controller
Extension unit cable length
Power consumption
max. 100 m
Fuse
Via 10 A circuit-breake
Radio interference suppression
Operating temperature to EN 55015


Basic circuit

\section*{Technical data}

Connected power channel 1 Incandescent and 230 V halogen lamps 1000 W (ohmic) Ironic transformer 750 W (capacitive) Conv. transformers (< 85 \% loading) incl. transformer power loss 750 VA (inductive) Fluorescent lamps uncompensated 500 VA, Duo circuit 1000 VA (inductive) Mixed load, capacitive and inductive loads should not be mixed incandescent lamps 800 W 230 V halogen lamps 750 W motor switching current 2.1 A

BLC touch dimmer LV for BLC button, BLC radio button, BLC presence detector and BLC controller


S Switch-on brightness can only be saved power failure safe with
BLC button and BLC radio button on dimmer and with BLC
button via the extension unit.
Push-buttons (NO contacts) can only be illuminated via L and \(N\).
Extension unit operation is only possible if there is a cover fitted on
he BLC touch dimmer LV.
Use BLC controller extension unit only in combination with BLC
controller or BLC presence detector on the BLC touch dimmer LV. case of excessive switch-on currents (with conv. transformers) use making current limiter order no. 0185.

Technical data
Nominal voltage
Connected load


Dimming principle

Incandescent and 230 V halogen lamps 20-500 W Conv. transformers at min. \(85 \%\) of rated load. total power output 20-500 VA including transformer power loss must must not exceed 500 VA. Combination of specified load types max. 10 approx. 1.2 W Phase cut-on

BLC touch dimmer LV
No. of extension units
Extension unit cable length
Noise
Fine-wire fuse
Radio interference suppression
Operating temperature
Terminals

\section*{BLC universal touch dimmer for BLC button, BLC radio button, BLC presence detector and BLC controller}


For a mixed load only ohmic / inductive or ohmic / capacitive is allowed
For a mixed load with inductive loads the proportion of the ohmic loads For a mixed load with
must not exceed \(50 \%\) !
Switch-on brightness can only be saved power failure safe with BLC button and BLC radio button on dimmer and with BLC button via the extension unit.
Push-buttons ( \(N\) N contacts) can only be illuminated via \(L\) and \(N\). Extension unit operation is only possible if there is a cover fitted on the BLC universal touch dimmer.
Use BLC controller extension unit only in combination with BLC
controller or BLC presence detector on the BLC universal touch dimmer.
In case of excessive switch-on currents (with conv. transformers) use making current limiter order no. 0185 .

Order no. 2904
BLC extension unit and push-button (NO) unlimited BLC controller extension units max. 10 max. 100 m Low noise T \(2 \mathrm{H} / 250 \mathrm{~V}\) according to EN 55015
-20 to \(25^{\circ} \mathrm{C}\) (see operating conditions, Page T6)
Screw-type terminals for max. \(2.5 \mathrm{~mm}^{2}\) or \(2 \times 1.5 \mathrm{~mm}^{2}\)

Nominal voltage Connected load


Mixed load of specified load types, do not mix capacitive and inductive loads! Universal booster RMD Plus

Tronic- or LV-boosters built-in depending upon type of load Power consumption Dimming principle

Phase cut-on or cut-off depending on orox. 0.7 W
BLC universal touch dimmers with universal boosters RMD plus


Max. 5/10 boosters depending on the dimmer principle

\section*{BLC universal touch dimmer}

Switch-on

Bulb-preserving soft start-up
BLC extension unit and push-button (NO) unlimited
No. of extension units Extension unit cable length Noise
Short-circuit-proof
Overheating protection
Radio interference suppression Operating temperature Terminals
1. For a mixed load only ohmic /inductive or ohmic capacitive is allowed
For a mixed load with inductive loads the proportion of the ohmic loads must not exceed \(50 \%\) ! For mixed oads with inductive loads, the proportion
of ohmic loads may not exceed \(50 \%\) !
connected to the dimmer (depending on the dimmer principle phase cut-on or phase cut-off)

BLC push-button control unit 1-10 V for BLC button, BLC radio button, BLC presence detector and BLC controller
with extension unit input for electronic ballasts and/or Tronic transformers with 1-10 V interface.

! When connecting energy saving bulbs and electronic ballasts, conside the high inrush currents. Check suitability of equipment prior to use, fit nrush current limiters order no. 0185 if necessary.
Basic brightness can only be saved with BLC button on BLC push-buto control unt 10 V .
Switch-on brightness can only be saved power failure safe with BLC button and BLC radio button on BLC push-button control unit 1-10 V Push-buttons (NO contacts) can ension unit. Extension unit operation is only possible if there is a cover fitted on the BLC push-button control unit \(1-10 \mathrm{~V}\). Use BLC controller extension unit only in combination with BLC
controller or BLC presence detector on the BLC push-button control unit 1-10 V .
To example of the planning \(1-10 \mathrm{~V}\) of a plant see side T28.

Basic circuit
\begin{tabular}{lr} 
Technical data & \(230 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}\) \\
Nominal voltage & \(1-10 \mathrm{~V}\) \\
Control voltage & 50 mA \\
Max. control current & Relay \\
Switching contact & 700 W incandescent and 230 V halogen lamps \\
Connected load & \begin{tabular}{r} 
Electronic ballasts type-specific \\
Tronic transformers type-specific \\
approx. 1.8 W
\end{tabular} \\
Power consumption &
\end{tabular}

Extension unit cable length
Open circuit protected
Electrical isolation 1-10 V Fuse
Radio interference suppression
Operating temperature Terminals

\section*{Product features BLC controller 1783 xx / 1786 xx}
- For mounting on BLC inserts
- Optimised detection thanks to refined lens system
- Detection angle \(180^{\circ}\)
- Scope of delivery includes cover for limiting the detection area to \(90^{\circ}\)
- Analogue signal processing

Response brightness adjustable in the range from 0 to 80 lux / daytime operation
- Response sensitivity continuously adjustable from 20 to \(100 \%\) via potentiometer
- Standardisation by means of specified delay time (2 min.)
- Extension of the detection area, e.g. for long corridors, through active BLC controller extension units 2908 with BLC controllers 1783 ../1786 ../1788../, BLC controllers comfort 1784 ../1787 ../1789 .. and BLC presence detector 170109
- Switching on, even outside of the detection area, through the use of passive BLC extension units 2907 or push-buttons (NOCs)
- Also motion-dependent, brightness-independent, time-delayed switching of fans, heaters, etc. through use with BLC relay switch insert HVAC 2912
- Operating temperature range -20 to \(45^{\circ} \mathrm{C}\)

\section*{Product features BLC controller comfort 1784 xx / 17887 xx}
- For mounting on BLC inserts
- Optimised detection thanks to refined lens system
- Detection angle \(180^{\circ}\)
- Scope of delivery includes cover for limiting the detection area to \(90^{\circ}\)
- Digital signal processing
- Adaptive automatic sensitivity adjustment to process the effects of interference signal sources and for adaptation to the ambient conditions --> optimised wrong operation safety
--> enhanced switching accuracy for detecting persons
- Response sensitivity also manually continuously adjustable from 20 to \(100 \%\) on potentiometer
- Response brightness adjustable in the range from 0 to 80 lux / daytime operation
- Teach function as an additional easy way to individually adjust the response brightness (without detaching the cover)
- Glareproof against brief light from, for example, car headlamps/torches
- No switching-on in case of unforeseeable short shadows
- Slide switch for off/automatic/on
- Brightness-independent step operation with immunity time 3 sec. (only in connection with BLC switch inserts, e.g. for doorbell operation)
- Dimming function (soft-off 30 sec .) when using a BLC dimmer insert
- Setting the switch-on brightness for the lighting via BLC extension unit 2907 in the BLC main dimming device (memory function)
- Extension of the detection area, e.g. for long corridors, through active controller extension units 2908 with BLC controllers 1783 ../1786 ../1788 .., BLC controller comfort 1784 ../1787 ../1789 .. and BLC presence detector 170109
- Switching on, even outside of the detection area, through the use of passive BLC extension units 2907 or push-buttons (NOCs)
- Also motion-dependent, brightness-independent, time-delayed switching of fans, heaters, etc. through use of the BLC relay switch insert HVAC 2912
Operating temperature range -20 to \(45^{\circ} \mathrm{C}\)
- Splash-protected flush-mounted variants (IP44) available

\section*{Teach function}

The teaching function can be used to save the current ambient brightness (response brightness). The response brightness set on the potentiometer is then no longer evaluated. Procedure:
To activate the teaching function, cover up the BLC controller comfort completely briefly for approx. 1 sec.at least 3 times within a period of 9 sec .
- As soon as the BLC controller comfort 3 has recognised 3 light cycles, the teaching function will be active. For confirmation, if the lighting is already switched on it is then switched off and then switched on for 3 sec. If the lighting is already switched off, then it is switched on for 3 sec.
- During the next minute, move away from the BLC controller comfort, so that it can correctly measure and save the current ambient brightness.
To confirm that it has been saved, switch the lighting on for 3 sec.
- The BLC controller comfort switches to the operating mode set on the slide switch.
A power failure \(>2 \mathrm{sec}\). reactivates the response brightness set on the potentiometer


\section*{Possible combinations}


\section*{Installation instructions}

\section*{optimal}

The detection rays are intersected optimally

\section*{1}

\section*{not optimal}

The detection rays are not intersected optimally. Range is limited.

\section*{!}

\section*{wrong}

The detection rays are not intersected.
The controller detects the object too late.

\section*{1}

\section*{problematical}

There should be no sources of interference, e.g. lamps, heaters or ans in the detection field:
Select suitable installation location and/or use push-on cover.


Problems with sources of interference with the BLC controllercan generally be solved with the teachable digital BLC controller comfort.
The BLC controllers have no forced switch-off, i.e. constant motion in the detection area results in continuous light. The Berker control and the controller system have an integrated forced switch-off after 90 min . at the latest.

\section*{Extension unit}

When using BLC controllers with BLC controller extension units, overlapping of the detection areas should be ensured, so that detection can be guaranteed.


Dimensions
Very low assembling height in comparison

\section*{Function:}

The BLC presence detector with constant light control responds to heat motions caused by persons, animals or objects. It can be used for switching and dimming of the lighting in offices and common areas. The presence detector switches the lighting on when it detects motion and the brightness is below the set level. The presence detector switches the lighting off if it is no longer needed, i.e. when it is bright enough even without lighting or when there is no longer anyone present. It is also able to evaluate small motions (fine motor functions), such as those that typically occur in offices. It is mounted exclusively on ceilings, and monitors the area located below it, for example. The lighting is switched or dimmed, depending on the BLC insert used. The presence detector switches the lighting on only for as long as it is needed. To expand the detection field, the presence detector can be combined with a BLC controller extension unit insert and connected to the main device.

\section*{Combination with a BLC switch insert}

The lighting is always switched on to maximum brightness. The lighting is switched off when one of the following cases applies:
- No more motion is detected and the set delay time has elapsed

The brightness exceeds for at least 10 minutes (e.g. due to more daylight) twice the set value. The fact that the brightness is exceeded is indicated by flashing of the LED. The lighting is also switched off when there is motion.

\section*{Combination with a BLC dimmer insert}

The presence detector first switches the lighting on to maximal brightness. After that it dims the lighting so that the brightness is held constant at the setpoint that has been set (constant light control). As daylight increases, the lighting is dimmed or switched off. As daylight decreases, the lighting is switched on or dimmed up. The constant light control is designed so that the user notices it as little as possible. The lighting is switched off when one of the following cases applies:
The presence detector detects no more motion and the set delay time has elapsed. The lighting is then dimmed to minimum brightness in at most one minute. After an additional five minutes without detection the lighting is switched off. The presence detector has adjusted the lighting to the lowest dimming setting. Nevertheless the brightness exceeds 1.5 times the setpoint. After a waiting period of 10 minutes the lighting is switched off regardless of motion.

\section*{Extension unit operation}

For manual operation of the presence detector, a BLC extension unit (passive extension unit) is required in combination with a BLC button or a mechanical push-button (NO contact).
Notes:
-When a BLC switch insert is used, no distinction is made between a short press and a long press.
With a mechanical push-button, no distinction is made between a short press and a long press. This means that dimming and changing of the temporary brightness setpoint is not possible.
Extension unit operation is only possible if there is a cover fitted on the main device. - Illuminated push-buttons must be supplied with power via a separate neutral conductor.
Short press (less than 400 ms )

Control surface
Top, Bottom, Full surface or mech. push-button

\section*{Load off}

The lighting is switched on to max. brightness. The delay time corresponds to the value set on the potentiometer, but is at least 2 minutes. Detected motions extend the delay time to the time set on the potentiometer.

\section*{Information regarding dimmer inserts}
- After switching-on, constant light control is performed.
- If the lighting was switched off via the extension unit, switching-on can be performed only via the extension unit to the last brightness value

\section*{Slide show function}

With a BLC extension unit or a mechanical push-button (NOCs) it is possible to switch the lighting off selectively. If the presence detector detects motion in the next 3 minutes, then the switch-off time is extended. Only after 3 minutes go by without motion being detected is the slide show function ended automatically. If motion is detected now, the lighting may be switched on again, depending on the brightness situation. If you wish to end the slide show function manually, switch the lighting on again manually at the extension unit (for dimmer inserts the brightness before switching-off will be set).

\section*{Temporary deactivation of the lighting control}

If the presence detector switched the lighting off due to sufficient extraneous light (e.g. daylight), then you can switch the lighting control off manually. To do this, switch the lighting on again at the extension unit within 1 minute after it is switched off automatically.
The lighting now remains switched on as long as the presence detector detects motion. The lighting is only switched off if the presence detector does not detect any more motion and the delay time has elapsed. The lighting control is now active again.

Long press (longer than 400 ms ) only for BLC dimmer inserts
\begin{tabular}{|l|l|l|}
\hline Control surface & \multicolumn{1}{c|}{ Load off } & \multicolumn{1}{c|}{ Load on } \\
\hline \begin{tabular}{l} 
Top or \\
Full surface
\end{tabular} & \begin{tabular}{l} 
The lighting is switched on to \\
minimum brightness, held for 1s \\
and then dimmed up to maximum \\
brightness.
\end{tabular} & \begin{tabular}{l} 
Increase (dim up) the brightness \\
to maximum brightness.
\end{tabular} \\
\hline Bottom & \begin{tabular}{l} 
The lighting is switched on to \\
minimum brightness. \\
See short press.
\end{tabular} & \begin{tabular}{l} 
Reduce (dim down) the \\
brightness to minimum \\
brightness.
\end{tabular} \\
\hline \begin{tabular}{l} 
Mechanical \\
push-button
\end{tabular} & See short press. \\
\hline
\end{tabular}

Notes:
- Each press re-starts the set delay time, but for at least 2 minutes.

Each detected motion re-starts the delay time set on the potentiometer.
In presence detector mode the dimmed brightness value is temporarily adopted as the brightness setpoint, as long as the lighting remains switched on. If the dimmer insert's own non-temporary brightness memory is changed, then a BLC button must be used temporarily for saving on the dimmer insert.
In controller operation the lamps retain the dimmed brightness as long as the lighting remains switched on.
BLC presence detector in combination with BLC controller extension units.
The area to be evaluated is expanded. Using up to 10 ( 5 with main device BLC universal touch dimmer) BLC controller extension units it is possible to evaluate even large areas. If a motion is detected by an extension unit, this is reported to the main device, and the connected load is switched on if the brightness is below the threshold value on the main device.
\[
\begin{aligned}
& \text { Connection in parallel of BLC presence detectors with constant light control is not } \\
& \text { permitted. To expand the detection field, use BLC controler extension units. }
\end{aligned}
\]

\section*{Installation location}
- Ceiling mounting in indoor areas.

The detection area should not be limited by furniture, pillars, etc.
Vibration-free installation, because movements of the detector can also trigger a switching operation
! During installation, do not subject the sensor window of the presence detector to direct During instalation, do not subject the
sunlight; this could destroy the sensor.

\section*{Sources of interference}

Do not install in the direct vicinity of a heat source. Cooling light bulbs and air movements from, for example, fans, heaters and open windows may

be detected and lead to switching-on again. If necessary limit detection area using supplied push-on cover. The detection area should not be limited by furniture, pillars, etc.

Settings
The cover can be removed in order to adjust the delay time (operating mode) and brightness threshold value. This makes optimal adjustment possible without detaching the cover.


\section*{Delay time}

The potentiometer "time" can be used to set the delay time; a change of operating mode is indicated by flashing of the LED.
Step operation: approx. 1 sec . on setting "Test"
Presence mode: approx. 10 min . to 30 min .


Brightness threshold value
Minimum brightness in the area being monitored. When the brightness drops below this value, the presence detector switches the lighting on when a motion is detected. When a dimmer insert is used, in presence detector mode the minimum brightness is simultaneously used as the setpoint at which the brightness is held constant. When set to marking 0 the automatic initial detection is deactivated, switching on is only possible manually via the extension units. For switch inserts the switch-off brightness (brightness setpoint) is approx. 400 lux here.
Technical data BLC presence detector with constant light control order no. 170110 Power supply depending on BLC insert Connected load Power consumption approx. 1 sec.test operation; Delay time approx. I sec.test operation; Brightness threshold value approx. 10-1000 lux/symbol " 0 " initial activation only via extension unit Detection angle
Detection levels
Number of zones
Detection area at desk level
Detection area at floor level
\(\begin{array}{ll} & \\ \text { approx. } \varnothing 5 \mathrm{~m} \\ \text { approx. } \varnothing 8 \mathrm{~m}\end{array}\)
Installation height for nominal detection areas \(\quad 2.5 \mathrm{~m}\)
Number of extension units
see BLC insert
Extension unit cable length max. 100 m
Radio interference suppression according to EN 55015
Operating temperature
0 to \(45^{\circ} \mathrm{C}\)

\section*{Test LED (brightness settings help)}

Load off
Load is switched on
when motion is detected.
Monitored area bright
enough:
Load remains off even
when motion detected.
LED Monitored area bright
flashes enough:
Load remains off even
when motion detected.

\section*{Load on}

Monitored area too dark:
Load remains switched on during motion. With no motion the switch is turned off after the set delay time.
Monitored area light enough due to switched-on lighting.
Load remains switched on during motion. With no motion the switch is turned off after the set delay time.
Monitored area very bright with lighting and extraneous light:
Load switches off after approx. 10 minutes, because the brightness is sufficient even without lighting.

\title{
BLC presence detector with constant light control \\ BLC ceiling controller 360/Presence detector
}


with push-on cover area II cut out approx. Ï Floor 4 m
Desk 2.5 m
cut out approx. I
Floor 2.2 m
Desk 1.4 m

push-on cover without
and il cut our 6 m
Fesk 3.7 m
Desk 3.7 m

Limitation of the presence detector detection area using push-on cover




ace-mounted in through areas



BLC ceiling controllers 360 combined with BLC controller extension units or presence detectors surface-mounted connected in parallel can also be used for automatic light switching, for example in through areas. Because they are mounted on the sealing, controllers are not immediately accessible, which makes
1. deliberate vandalism more difficult. To ensure switching in response to motion, a detection field diameter of approx. 10 (5) m should be planned. The distance to a door should not exceed 4 (2.5) m. ()= Presence detector surface-mounted Area of application: schools, offices, public buildings, etc.

\section*{BLC ceiling controller 360}

The BLC ceiling controller 360 is operated together with a BLC dimming or switch insert and mounted on the ceiling. The controller switches the lighting on and off depending on motion and the ambient brightness. The controller also detects heat motions of persons, animals or objects.
- Light is switched on: The brightness is below the set threshold and the someone enters the area being monitored
Light is switched off: No more motion is detected and the delay time has expired.

\section*{Detection area}

The diameter of the detection area depends on the installation height and the direction of motion. For an installation height of 3 m the maximum diameter at the floor is approx. 12 m when approaching and approx. 20 m when crossing

\begin{tabular}{|c|c|}
\hline Technical data & BLC ceiling controller 360 order no. 170111 \\
\hline Power supply & via BLC insert \\
\hline Connected load & depending on BLC insert \\
\hline Power consumption & approx. 1 W \\
\hline Delay time & approx. 1 sec . test operation; approx. 10 sec . -30 min . \\
\hline Response brightness & approx. 2-80/m lux \\
\hline Response sensitivity & 20-100\% \\
\hline Detection angle & \(360^{\circ}\) \\
\hline Detection levels & 5 \\
\hline Number of zones & 78 \\
\hline Number of switching segments & 312 \\
\hline Range for approaching & approx. \(\varnothing 12 \mathrm{~m}\) \\
\hline Range for crossing & approx. \(\varnothing 20 \mathrm{~m}\) \\
\hline Installation height for nominal ranges & 3 m \\
\hline Number of extension units & see BLC insert \\
\hline Extension unit cable length & max. 100 m \\
\hline Dimensions ( \(\varnothing \times \mathrm{H}\) ) & \(103 \times 42 \mathrm{~mm}\) \\
\hline Radio interference suppression & according to EN 55015 \\
\hline Operating temperature & 5 to \(35{ }^{\circ} \mathrm{C}\) \\
\hline \begin{tabular}{l}
Additional features \\
- Extension of the detection field \\
- Manual operation with BLC ex \\
- Daytime operation \\
- Test/step operation \\
- Saving the switch-on brightne \\
- Dimming the light via BLC exte \\
- Display LED
\end{tabular} & \begin{tabular}{l}
controller extension units it or button (NO contact) \\
extension unit with BLC dimmer inserts with BLC dimmer inserts
\end{tabular} \\
\hline
\end{tabular}

\section*{Presence detector surface-mounted}

The presence detector surface-mounted is used to monitor presence in indoor areas. It is mounted exclusively on ceilings, and monitors the area located below it. It responds to heat motions caused by persons, animals or objects. It is also able to evaluate small motions (fine motor functions), such as those that typically occur in offices. When a motion is detected and the brightness is below an adjustable brightness threshold, the load is switched on. The device remains switched on as long as further motions are detected. If no more motion is detected, then the load is switched of after the set delay time. If the brightness on the monitored surface continuously exceeds double the set brightness threshold value (but at least approx. 400 lux), for example due to brighter daylight, then the red diagnosis and settings help LED flashes and the presence detector switches off after 10 minutes at the latest, even if there is motion. The presence detector surface-mounted can only be used for switching applications.

Extension unit operation
\begin{tabular}{|l|l|l|}
\hline & \multicolumn{1}{|c|}{ Load off } & \multicolumn{1}{c|}{ Load on } \\
\hline Mechanical & \begin{tabular}{l} 
The lighting is switched on The delay time \\
push-button \\
corresponds to the value set on the \\
potentiometer, but at least 2 minutes \\
Detected motions extend the delay time to \\
the time set on the potentiometer.
\end{tabular} & \begin{tabular}{l} 
Lighting is switched off \\
for 3 minutes. \\
For more information, \\
see slide show function
\end{tabular} \\
& \\
\hline
\end{tabular}

\section*{Slide show function}

With a BLC extension unit or a mechanical push-button (NOCs) it is possible to switch the lighting off selectively. If the presence detector detects motion in the next 3 minutes, then the switch-off time is extended. Only after 3 minutes go by without motion being detected is the slide show function ended automatically. If motion is detected now, the lighting may be switched on again, depending on the brightness situation. If you wish to end the slide show function manually, switch the lighting on again manually at the extension unit (for dimmer inserts the brightness before switching-off will be set).

\section*{Temporary deactivation of the brightness evaluation}

If the presence detector switched the lighting off due to sufficient extraneous light (e.g. daylight), then you can switch the brightness evaluation off manually. To do this, switch the lighting on again at the extension unit within 1 minute after it is switched off automatically.
The lighting now remains switched on as long as the presence detector detects motion. The lighting is only switched off if the presence detector does not detect any more motion and the delay time has elapsed. The brightness evaluation is now active again.

\section*{Sources of interference}

Do not install in the direct vicinity of a heat source. Cooling light bulbs and air movements from fans, heaters and open windows can be detected and lead to switching on again. If necessary limit
 detection area using supplied push-on cover

During installation, do not subject the presence detector to direct surlight;
this could destroy the detector.

\section*{Settings}

The cover can be removed in order to adjust the delay time and brightness. Can be adjusted without dismantling.
 -Brightness sensor Delay time setting Brightness setting Test and status LEDs (brightness settings help)
Fresnel lens
Delay time
The potentiometer "time" can be used for fine adjustment of the on-time. Test mode: approx. 1 sec. on setting "test"
Presence mode: approx. 10 sec . to approx. 30 min .

\section*{Brightness threshold value}

Minimum brightness in the area being monitored. When the brightness drops below the set brightness threshold value and there is motion, then the switch is turned on.


The potentiometer "ux" can be used to adjust the minimum brightness from approx. 10 lux (symbol moon) to 1000 lux (symbol sun). When set to the marking 0 the presence detector can only be switched on via the extension unit. In this case the switch-off brightness is 400 lux.e.drops time
\begin{tabular}{|c|c|c|}
\hline \multicolumn{3}{|l|}{Test LED (brightness settings help)} \\
\hline & Load off & Last on \\
\hline \[
\begin{aligned}
& \text { LED } \\
& \text { off }
\end{aligned}
\] & Monitored area too dark: Load is switched on when motion detected. & Monitored area too dark: Load remains switched on during motion. With no motion the switch is turned off after the set delay time. \\
\hline \[
\begin{aligned}
& \text { LED } \\
& \text { on }
\end{aligned}
\] & \begin{tabular}{l}
Monitored area light enough: \\
Load remains off even when motion detected.
\end{tabular} & \begin{tabular}{l}
Monitored area light enough due to switched-on lighting. \\
Load remains switched on during motion. With no motion the switch is turned off after the set delay time.
\end{tabular} \\
\hline LED flashes & \begin{tabular}{l}
Monitored area light enough: \\
Load remains off even when motion detected.
\end{tabular} & \begin{tabular}{l}
Monitored area very bright with lighting and extraneous light: \\
Load switches off after approx. 10 minutes, because the brightness is sufficient even without lighting.
\end{tabular} \\
\hline
\end{tabular}


\section*{Expansion of the detection area}

Connection in parallel of presence detectors surface-mounted "intelligent load linking" Note: All presence detectors connection in parallel surface-mounted must be operated in the same phase. Connection in parallel does not increase the max. connected load. The built-in microprocessor, in connection with a voltage measurement on the load cable, ensures that all presence detectors connected in parallel surface-mounted detect when lighting is switched on. As long as a motion is detected by one of the presence detectors surface-mounted, the lighting remains switched on. The delay time is restarted every time a motion is detected in the respective presence detector surface-mounted
The lighting is switched off when:
- none of the presence detectors is detecting movement and the last remaining on-time has expired.
- for all presence detectors the brightness in their monitored area is constantly exceeds at least twice the set value.
In this manner it is possible to set up a presence detector system with equal rights without mutual influence.

\section*{Technical data}

Presence detector surface-mounted order no. 170108
Rated voltage
Connected load
1000 W incandescent lamps and 230 V halogen lamps, ohmic load 750 W 12 V halogen lamps and 230 V halogen lon lamps, ohmic load 750 W 12 V halogen lamps with Tronic transformer, capacitive load 750 VA 12 V halogen lamps with conv. transformer, inductive load 500 W Fluorescent lamps uncomp. inductive load 1000 VA fluorescent lamps in duo configuration, inductive load Mixed load, capacitive and inductive loads should not be mixed
Number of switching segments \(\quad 80\)
\begin{tabular}{ll} 
Number of switching segments approx. \(\varnothing 5 \mathrm{~m}\) \\
Detection area at desk level \\
& 320 \\
\end{tabular}

Detection area at desk level
approx. \(\varnothing 5 \mathrm{~m}\)
Detection area at floor level Installation height for nominal detection areas
2.5 m
\begin{tabular}{ll} 
Installation height for nominal detection areas Push-button NO contact unlimited \\
Number of extension units & 2.5 m \\
\hline
\end{tabular}

Extension unit cable length
max. 100 m
Connection in parallel
possible
Load cable length (with parallel connection cable)
\(\max .100 \mathrm{~m}\)
\(03 \times 57.5 \mathrm{~mm}\)
Dimensions ( \(\varnothing \times \mathrm{H}\) )
acc. to EN 55015
Radio interference suppression
approx. \(0-45^{\circ} \mathrm{C}\)
Connecting terminals
Screw terminals for max. \(2.5 \mathrm{~mm}^{2}\) or \(2 \times 1.5 \mathrm{~mm}^{2}\)
\begin{tabular}{|c|c|}
\hline Technical data & BLC triac switch insert LV \\
\hline Supply voltage & 230 V , 50/60 Hz \\
\hline Power consumption & 1 W \\
\hline Switching contact & Triac \\
\hline Switching capacity & \\
\hline - Incandescent lamps & 40-400 W \\
\hline - 230 V halogen lamps & 40-400 W \\
\hline - Conventional transformers at 85 \% load & 40-400 VA \\
\hline - Tronic transformers & \\
\hline - Fluorescent lamps uncompensated parallel compensated & \\
\hline Duo circuit & \\
\hline - Fluorescent lamps with electronic ballast & \\
\hline Energy saving lamps & \\
\hline HVAC switching current & \\
\hline Maximum inrush current & \\
\hline Minimum load & 40 W \\
\hline Slide switch & see cover \\
\hline Radio interference suppression & to EN 55015 \\
\hline VDE mark & - \\
\hline Index of protection & see cover \\
\hline Operating temp. (obs. the cond. on page T7) & -20 to \(25^{\circ} \mathrm{C}\) \\
\hline Delay time & see cover \\
\hline Response brightness & see cover \\
\hline Response sensitivity & see cover \\
\hline Recommended mounting height & 1.1 or 2.2 m \\
\hline Detection levels & see cover \\
\hline Detection area limit & see cover \\
\hline Range reduction & see \\
\hline & cover \\
\hline Fuse & T1.6 H 250 V \\
\hline Order no.: & 2905 \\
\hline S. When connecting energy-saving bulbs and electron high inrush currents. Check suitability of equipment limiters if necessary. Observe the operating conditions on page T6. & ts (EVGs), consider the use and fit inrush curre \\
\hline
\end{tabular}

When connecting energy-saving bulbs and electronic ballasts (EVGs), consider the
high inrush currents. Check suitability of equipment prior to use and fit inrush current
limiters if necessary. limiters if necessary.
Observe the operating
\begin{tabular}{|c|c|c|c|}
\hline BLC relay switch insert & BLC relay switch insert HVAC & BLC stair light trigger insert & BLC auto. stair light switch RMD Plus \\
\hline \(230 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}\) & \(230 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}\) & \(230 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}\) & 230 V , 50 Hz \\
\hline 1.2 W & 1.5 W & \(0.5 \mathrm{~W}(2.5 \mathrm{~mA})\) & \\
\hline Relay & Relay & s. auto. stair light switch RMD & Relay, ED 100 \% \\
\hline \multicolumn{4}{|r|}{HVAC values, s. below \({ }^{*}\) -} \\
\hline 2300 W & 1000 W & s. auto. stair light switch RMD & 2300 W \\
\hline 2300 W & 1000 W & & 2300 W \\
\hline 1000 VA & 750 VA & & 1000 VA \\
\hline 1500 W & 750 W & s. auto. stair light switch RMD & 1500 W \\
\hline 1200 VA & 500 VA & & 1200 VA \\
\hline 920 VA & & & 920 W \\
\hline 2300 VA & 1000 VA & s. auto. stair light switch RMD & 2300 W \\
\hline & & & 700 W \\
\hline approx. 200 VA & - & s. auto. stair light switch RMD & approx. 200 VA \\
\hline - & 4 A & s. auto. stair light switch RMD & - \\
\hline 15 A & 15 A & s. auto. stair light switch RMD & 15 A \\
\hline 100 mA & 100 mA & s. auto. stair light switch RMD & 100 mA \\
\hline see cover & see cover & at auto. stair light switch RMD & Off/Auto/On \\
\hline to EN 55015 & to EN 55015 & to EN 55015 & to EN 55015 \\
\hline - & - & - & - \\
\hline see cover & see cover & see cover & IP20 \\
\hline -20 to \(45^{\circ} \mathrm{C}\) & 5 to \(35{ }^{\circ} \mathrm{C}\) & 5 to \(45^{\circ} \mathrm{C}\) & 5 to \(50{ }^{\circ} \mathrm{C}\) \\
\hline see cover & see cover & s. auto. stair light switch RMD & 10 sec . - 15 min . \\
\hline see cover & see cover & approx. 0 to \(80 / \infty\) Lux & on BLC trigger insert \\
\hline see cover & see cover & on BLC controller & on BLC controller \\
\hline 1.1 or 2.2 m & 1.1 or 2.2 m & 1.1 or 2.2 m & - \\
\hline see cover & see cover & see BLC controller & - \\
\hline see cover & see cover & on BLC controller & \\
\hline see & see & on BLC controller & - \\
\hline cover & cover & or comfort & \\
\hline 10 A circuit breaker & 10 A circuit breaker & - - & 10 A circuit breaker \\
\hline 2906 & 2912 & 293410 & 016301 \\
\hline *HVAC channel for BL & C relay switch insert 2912 & & \\
\hline \multicolumn{4}{|l|}{Switching capacity of incandescent lamps: 800 W} \\
\hline \multicolumn{4}{|l|}{Switching capacity of 230 V Halogen lamps: 750 W} \\
\hline \multicolumn{4}{|l|}{Switching on delay: 3 min . Switching off delay: approx. 2/10/30/60/120 min.} \\
\hline
\end{tabular}

\section*{BLC stair light trigger insert}


Control line length max. 100 m A slide switch of the BLC controller comfort has no function. With BLC controller and BLC presence detector the delay time must be set to step operation.
When energy-saving lamps and electronic ballasts are connected note high switch-on currents. Check suitability of the devices before use
and if necessary use making current limiter!

The BLC stair light trigger inserts can only be used in conjunction with the BLC automatic stair light switch RMD Plus. BLC controller, BLC controller comfort, BLC presence detector or BLC button are required as covers.
The permitted number is shown in the following table:
\begin{tabular}{c|c|c|c}
\begin{tabular}{c} 
BLC stair light \\
trigger inserts
\end{tabular} & \begin{tabular}{c} 
unilluminated \\
push-buttons
\end{tabular} & \begin{tabular}{c} 
illuminated push- \\
buttons \(0,4 \mathrm{~mA}\)
\end{tabular} & \begin{tabular}{c} 
illuminated push- \\
buttons 1 mA
\end{tabular} \\
\hline 16 & any & - & - \\
12 & any & 25 & 10 \\
\(10 / 8 / 6 / 4 / 2\) & any & \(37 / 50 / 62 / 75 / 87\) & \(15 / 20 / 25 / 30 / 35\)
\end{tabular}

Increasing the number of illuminated push-buttons
With the above circuit (4-wire circuit, pulsed phase), the terminal of the neon lamp unit is connected to the neutral conductor
(Remove contact lug on neon lamp unit) As a result, this push station
is to be classified in the table as an unilluminated push-button.
With a 3-wire circuit variation (pulsed neutral conductor), the neon
lamp unit terminal must be connected to the phase.
(Remove contact lug on neon lamp unit) As a result, this push station
is to be classified in the table as an unilluminated push-button.
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline Technical data & BLC controller extension unit & \begin{tabular}{l}
BLC controller \\
1.1/2.2 m
\end{tabular} & BLC controller comfort 1.1/2.2 m & BLC controller 2.2 m & BLC controller comfort 2.2 m & Controller system cover 1.1/2.2 m & Controller system insert \\
\hline Supply voltage & \(230 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}\) & via insert & via insert & via insert & via insert & via insert & \(15 \mathrm{~V}=\) \\
\hline Power consumption & & see insert & see insert & see insert & see insert & see insert & 0.06 W \\
\hline Switching contact & see main station & see insert & see insert & see insert & see insert & see master device & see power supply unit \\
\hline Switching capacity & & & & & & & \\
\hline - Incandescent lamps & & see insert & see insert & see insert & see insert & see master device & see power supply unit \\
\hline -230 V halogen lamps & & see insert & see insert & see insert & see insert & see master device & see power supply unit \\
\hline -Conventional transformers at \(85 \%\) load & & see insert & see insert & see insert & see insert & see master device & see power supply unit \\
\hline -Tronic transformers & & see insert & see insert & see insert & see insert & see master device & see power supply unit \\
\hline -Fluorescent lamps & & & & & & & \\
\hline uncompensated & & see insert & see insert & see insert & see insert & see master device & see power supply unit \\
\hline parallel compensated & & see insert & see insert & see insert & see insert & see master device & see power supply unit \\
\hline Duo circuit & & see insert & see insert & see insert & see insert & see master device & see power supply unit \\
\hline -Fluorescent lamps with electronic ballast & - & - & & & & & \\
\hline Energy saving lamps & & see insert & see insert & see insert & see insert & see master device & see power supply unit \\
\hline HVAC switching current & & see insert & see insert & see insert & see insert & - & \\
\hline Maximum inrush current & & see insert & see insert & see insert & see insert & see master device & \\
\hline Double-throw switch & - - & - & - & - & Off/Auto/On & see master device & - \({ }^{-}\) \\
\hline Radio interference suppression & to EN 55015 & to EN 55015 & to EN 55015 & to EN 55015 & to EN 55015 & to EN 55015 & to EN 55015 \\
\hline VDE mark & - & - & - & - & - & - & \\
\hline Index of protection & see cover & IP20 / IP44 & IP20 / IP44 & IP20 & IP20 & IP44 & see power supply unit \\
\hline Operating temperature & -20 to \(45^{\circ} \mathrm{C}\) & -20 to \(45^{\circ} \mathrm{C}\) & -20 to \(45^{\circ} \mathrm{C}\) & -15 to \(45^{\circ} \mathrm{C}\) & -15 to \(45^{\circ} \mathrm{C}\) & 5 to \(45{ }^{\circ} \mathrm{C}\) & 5 to \(45{ }^{\circ} \mathrm{C}\) \\
\hline Microprocessor & - & - - & - & - & - & - & \\
\hline Delay time & via master unit & 2 min . (fixed) & 0,5/10 s - 30 min & 2 min. (fixed) & 0,3/10 s - 30 min & see master unit & see power supply unit \\
\hline Response brightness & via master unit & approx. 0 to 80/m Lux & approx. 0 to 80/¢ Lux & approx. 0 to 80/o Lux & approx. 0 to 80/m Lux & at master unit/insert & see power supply unit \\
\hline Response sensitivity & see cover & approx. 20 to 100 \% & approx. 20 to \(100 \%\) & 100 \% & approx. 20 to 100 \% & approx. 20 to 100\% & on system cover \\
\hline Recommended mounting height & 1.1 or 2.2 m & 1.1 or 2.2 m & 1.1 or 2.2 m & 2.2 m & 1.1 or 2.2 m & 1.1 or 2.2 m & 1.1 or 2.2 m \\
\hline Detection levels & see cover & 2 or 3 & 2 or 3 & 6 & 6 & 2 & see system cover \\
\hline Detection area limit & see cover & \(90^{\circ}\) by cover & \(90^{\circ}\) by cover & sensor cutoff & sensor cutoff & \(90^{\circ}\) by cover & on system cover \\
\hline Range reduction & see & potentiometer stepless & potentiometer stepless & - & 25/50/75/100 \% & potentiometer stepless & see \\
\hline & cover & 20 to 100\% & 20 to 100\% & & learnable & 20 to 100\% & system cover \\
\hline Fuse & T1.6H250 V & via insert & via insert & via insert & via insert & 1715./1718 - & \\
\hline Order no. & 2908 & 1783 .. / 1786 .. & 1784 .. / 1787 .. & 1788 .. & 1789 .. & 1715 .. / 1718 .. & 2939 \\
\hline
\end{tabular}
\(\pm\) Further technical information at www.berker.com
1. BLC controller IP44 for mounting height 1.1 m


Ensure
Ensure no direct sunlight can fall on the upper detection plane. Also suitable for exterior applications!

Mounting instructions
optimal
The detection
beams are
optimally cut.
\(\triangle\)
not optimal
The detection beams are not optimally cut. The range is reduced.
\(\triangle\)

\section*{wrong}

The detection beams are not cut. The controller detects the object too late.

not optimal


BLC controller 2,2 m



\section*{\begin{tabular}{|l|}
\hline Technical data \\
\hline Supply voltage
\end{tabular}}

Power consumption
Switching contact
Switching capacity incandescent lamps
230 V halogen lamps
Tronic transformers
Conv. transformers at \(85 \%\) load
Fluorescent lamps
uncompensated
parallel compensated
Duo circuit
Fluorescent lamps with electronic ballast
Energy saving lamps
Maximum inrush current
RFI suppressed
VDE mark
Index of protection
Operating temperature
Delay time
Bell pulse
Forced cut-out after 90 min .
Activation brightness approx.

\section*{Response sensitivity}

Recommended mounting height
Close-up range approx.
Mid range approx. 0.5 to 4 m
Remote range approx.
Crawl-under protection
Detection area limit
Range reduction
System sensor cable
Number of system sensors
Improved approach response
Additional function due to push-button (NCC) in lead: push-button =
\begin{tabular}{|c|c|}
\hline Automatic controller plus 110 & Berker control \\
\hline \(230 \mathrm{~V} \sim, 50 \mathrm{~Hz}\) & 230 V , 50/60 Hz \\
\hline approx. 1.3 W & approx. 1.1 W \\
\hline Relay & Relay \\
\hline 2300 W & 2300 W \\
\hline 1000 W & 2300 W \\
\hline 1200 W & 1200 W \\
\hline 1200 VA & 1200 VA \\
\hline 1200 VA & 1200 VA \\
\hline 920 VA & 920 VA \\
\hline 2300 VA & 2300 VA \\
\hline see inrush current & see inrush current \\
\hline limiter T37 & limiter T37 \\
\hline 20 A & 20 A \\
\hline to EN 55015 & to EN 55015 \\
\hline Yes & Yes \\
\hline IP54 & IP55 \\
\hline -35 to \(50^{\circ} \mathrm{C}\) & -20 to \(55{ }^{\circ} \mathrm{C}\) \\
\hline 12 sec . to 12 min . & 2 sec . to 30 min . \\
\hline No & Yes 0.5 sec . \\
\hline & Yes \\
\hline 5 to \(300 / \infty\) lx & 1 to \(1000 / \infty\) \\
\hline & 20 to 100\% \\
\hline 2.5 m & 2.4 m \\
\hline 0.5 to 1 m & 0 to 3 m \\
\hline 1 to 5 m & 3 to \(7 \mathrm{~m} / 7\) to 11 m \\
\hline 5 to 16 m & 11 to 16 m \\
\hline & -0.4 to 0 \\
\hline Mask and cover plates & Cover elements \\
\hline by & Tilt with reduction \\
\hline tilt & in sensitivity \\
\hline & Yes \\
\hline & \\
\hline - & Yes \\
\hline Press 1x = Delay time & Press \(1 \mathrm{x}=\) Delay time \(2 \mathrm{x}=4 \mathrm{hr}\) s on, \(3 x=4 h r s\) off, \(4 x=\) Test \\
\hline 010209 & 0190 \\
\hline
\end{tabular}

When connecting energy-saving bulbs and electronic ballasts (EVGs), consider the high irrush currents. Check suitability of equipment prior to use and fit inrush current heaters, in the detection range.

\section*{Dimensional drawing}


Top view of

\section*{detection range}


Side front view of

\section*{detection range}


\section*{Ranges}

\begin{tabular}{|c|c|}
\hline Technical data & C \\
\hline \multicolumn{2}{|l|}{Supply voltage} \\
\hline \multicolumn{2}{|l|}{Power consumption} \\
\hline Switching contact & see sys \\
\hline Switching capacity incandesc. lamps & see sy \\
\hline 230 V halogen lamps & see s \\
\hline Tronic transformers & see sy \\
\hline Conv. transformers at 85\% load & see s \\
\hline Fluorescent lamps & \\
\hline uncompensated & see s \\
\hline parallel compensated & see s \\
\hline Duo circuit & see s \\
\hline Fluorescent lamps with elec. ballast & see sy \\
\hline Energy saving lamps & see sy \\
\hline Maximum inrush current & see sy \\
\hline \multicolumn{2}{|l|}{RFI suppressed} \\
\hline \multicolumn{2}{|l|}{VDE mark} \\
\hline \multicolumn{2}{|l|}{Index of protection} \\
\hline \multicolumn{2}{|l|}{Operating temperature} \\
\hline Delay time & see s \\
\hline \multicolumn{2}{|l|}{Bell pulse} \\
\hline Forced cut-out > 90 min . & see sy \\
\hline Activation brightness approx. & see sy \\
\hline \multicolumn{2}{|l|}{Response sensitivity} \\
\hline \multicolumn{2}{|l|}{Recommended mounting height} \\
\hline \multicolumn{2}{|l|}{Close-up range approx.} \\
\hline \multicolumn{2}{|l|}{Mid range approx.} \\
\hline \multicolumn{2}{|l|}{Remote range approx.} \\
\hline \multicolumn{2}{|l|}{Crawl-under protection} \\
\hline \multicolumn{2}{|l|}{Detection area limit} \\
\hline \multicolumn{2}{|l|}{Range reduction} \\
\hline \multicolumn{2}{|l|}{System sensor cable} \\
\hline \multicolumn{2}{|l|}{Number of system sensors} \\
\hline \multicolumn{2}{|l|}{Improved} \\
\hline \multicolumn{2}{|l|}{approach response} \\
\hline \multicolumn{2}{|l|}{Additional function by push-button \((\mathrm{NC})\) in lead: push-button =} \\
\hline \multicolumn{2}{|l|}{Order no. (polar white)} \\
\hline \begin{tabular}{l}
When connecting energy-saving bulbs a electronic ballasts (EVGs), consider the his inrush currents. Check suitability of equip prior to use and fit inrush current limiters necessary. \\
Ensure that there are no interference sou e.g. lamps or heaters, in the detection rang
\end{tabular} & and high oment if urces, range. \\
\hline
\end{tabular}
\(\left.\begin{array}{r}\text { Controller system } \\
\text { sensor } 240 \\
15 \mathrm{~V}= \\
\text { approx. } 0.06 \mathrm{~W}\end{array} \left\lvert\, \begin{array}{r}\text { see system power pack } \\
\text { see system power pack } \\
\text { see system power pack } \\
\text { see system power pack } \\
\text { see system power pack } \\
\text { see system power pack } \\
\text { see system power pack } \\
\text { see system power pack } \\
\text { see system power pack } \\
\text { see system power pack }\end{array}\right.\right\}\)\begin{tabular}{r} 
see system power pack \\
to EN 50015 \\
Yes \\
\hline IP55
\end{tabular}
\(J-Y(S T) Y 2 \times 2 \times 0.8\) or YR \(4 \times 0.8\)
\(J-Y(S T) Y 2 \times 2 \times\)

015109


\section*{Top view of}
detection range

\section*{Side front view of detection range}


\section*{Ranges}


\section*{Berker control stands for:}
- digital, microprocessor-controlled operation
- digital detection signal evaluation
- digital interference signal suppression
- response sensitivity adjustable
- 4 monitoring planes
- detection angle \(220^{\circ}\)
- crawl-under protection
- range 16 m

145 sectors with over 580 switching segments
- non-weather-dependent range consistency
- activation brightness from 1 Lux - daytime operation adjustable
- glare-proof (e.g. against torches)
delay time 2 sec. - 30 min . adjustable
- short-time service 0.5 sec . with immunity time setting
- additional functions, controller operation/4 hrs. On/4 hrs. Off/Test
- with LED detection and mode indicator
- limit cut-out
- intelligent load linking
- for wall and ceiling installation
- cable entry from all sides
- vertical and horizontal tilting

\section*{Operating principle}

The Berker control responds to heat movement, such as that triggered by people or motor vehicles. The digital processing of movement signals in the integrated processor means interference is largely suppressed. It activates when consumers, such as lights, are detected. The unit remains on as long as movements are detected, otherwise the Berker control switches off at the end of the pre-set delay time.
A short-time service of 0.5 sec . can additionally be set. This makes it possible to operate acoustic signal generators to monitor an entrance door (bell/gong) and lock it for a programmemable immunity time of 1 sec . - 10 min . until the next movement. The visual indicator signals the response of the unit.
With the adjustable twilight switch you activate the switching function only as from a desired activation brightness, or you programme daytime operation.

The optical alignment of the sensor head allows you to adapt the unit to specific on-site conditions. Any heat sources triggering unwanted activation can be suppressed by means of the adjustable sensitivity and the self-adhesive masking elements.

The Berker control offers a high degree of protection against ambient light. As the ambient brightness increases, the motion detection only ceases to be evaluated when the pre-set brightness value has been exceeded for at least 10 minutes.
This excludes the possibility of tampering, such as shining a torch on to the controller to prevent it from activating.

As the ambient brightness slowly decreases, motion detection is only evaluated when the brightness level has been below the pre-set activation brightness for at least 2 minutes. This prevents the controller from responding to merely short-time periods of sub-minimum brightness (such as due to a cloud).

\section*{Mounting instructions}

The flexible housing construction of the Berker control makes it suitable both for wall and ceiling installation.

To adapt the detection angle to onsite conditions, the sensor head can be inclined and rotated.

Mount the Berker control free of vibration, because sensor movements, such as those caused by mounting on a tree may also trigger the switch.


\section*{Mount laterally across the direction of movement}

If a person moves laterally across the Berker control, switching segment 2 senses a negative jump in temperature (e.g. from \(20^{\circ} \mathrm{C}\) to \(18^{\circ} \mathrm{C}\) ) and switching segment 1 senses a positive jump in temperature (e.g. from \(18^{\circ} \mathrm{C}\) to \(20^{\circ} \mathrm{C}\) ). This means effective detection and stable ranging


If a person moves directly towards the Berker control the temperature remains virtually constant in switching segment 2 . There may perhaps be no detection. The person must approach the Berker control more closely to be 'detected'.

\section*{Mounting instructions}

Do not mount the Berker control directly above/next to a light. As the light cools it may be detected as a change of heat and lead to reactivation. If necessary, limit the detec tion range of the sensor with the masking elements supplied.


When mounting the Berker control make sure the controller ens is not pointing towards the sun (sensor may be damaged). In a horizontal position the detection beams may point directly at the sun (see illustration). It is therefore advisable to protect the sensor head against exposure to direct sunlight prior to mounting it on the terminating outlet.


\section*{Detection field}

The Berker control has a very dense, horseshoe shaped detection angle of 220, comprising 4 planes with over 145 sectors and 580 switching segments, as well as additiona crawl-under protection.
Extent of the detection field:
\(16 \times 20 \mathrm{~m}\) see diagram
The 4 monitoring planes are defined as follows
\(1^{\text {st }}\) plane from \(\quad 0 \mathrm{~m}\) to approx. 3.0 m
\(2^{\text {nd }}\) plane from \(\quad\) approx. 3.0 m to approx. 7.0 m \(3^{\text {rd }}\) plane from \(\quad\) approx. 7.0 m to approx. 11 m \(4^{\text {th }}\) plane from approx. 11 m to approx. 16 m Crawl-under protection approx. -0.4 m to 0 m The ranges relate to the recommended mounting height of 2.4 m , sensor head aligned horizontally, direction of movement laterally across the Berker control, sufficient temperature difference between moving body and surroundings on level ground.


The range is reduced by:
- rising ground
- inclined sensor head
- mounting height less than 2.4 m
- low temperature difference

The range is increased by:

\section*{- falling ground}
- sensor head pointing upwards
- mounting height more than 2.4 m
- high temperature difference

If the sensor head is aligned at about \(6^{\circ}\) tilt or example (the upper edge of the housing forming a continuous line with the bottom edge of the sensor), the range will be reduced to approx. 12 m .

The masking elements supplied can be used to eliminate sources of interference by limiting the detection angle. To do so, cut the masking elements as required to the size of the individual detection planes or to the desired angle. Then detach the masking elements from the backing sheet and affix them smoothly to the sensor window.



\section*{Terminating outlet}

The terminating outlet of the Berker control unit is fitted with 6 cable glands, for custom cable entries from above, below, left, right and rear.
Before installing the terminating outlet, open up the two condensate drains at the bottom (do not do this if installing in dusty rooms).

\section*{Electrical connections}

Connections executed as plug-in terminals.

\section*{(BK) black: L (phase)}
(BU) blue: \(\quad \mathrm{N}\) (neutral conductor)
(BR) brown: \(\quad \mu\) (relay, lamp cable)
Note: When using energy saving lamps, consider high inrush currents. If necessary use inrush current limiter order no. 0185.

\section*{Controller operation/CONTINUOUSLY ON}

The "S" switch allows changeovers between controller operation and CONTINUOUSLY ON.

\section*{Controller operation (monitoring)/ \\ CONTINUOUSLY ON}

The "S" switch allows changeovers between controller operation and CONTINUOUSLY ON.
When the Berker control unit is switched on and CONTINUOUSLY ON is set, the neon lamp unit lights up.

\section*{Switch off}

Using "S1" or "S2" switch.
When switching back on, "S1" activates a switching operation of the Berker control unit for the pre-set delay time. "S2" does not do this, as only the load is switched on or off.

\section*{Controller operation/CONTINUOUSLY ON} changeover switching
The "S" switch allows changing over between controller operation and CONTINUOUSLY ON.

\section*{With push-button (NC)}

Existing switches can be replaced by a push-button "T". Pressing the push-button once for min. 1 sec . activates a non-brightness-dependent switching operation for the pre-set delay time.
Pressing repeatedly = additional functions.

\section*{Changeover switching}

Existing changeover switches can be replaced by push-button "T" (NO). Pressing the push-button once for min. 1 sec . activates a non-brightness-dependent switching operation for the set delay time.
Pressing repeatedly = additional functions.

\section*{With push-button (NO)}

Pressing push-button "T" (NO) once for min. 0.5 sec . activates a non-brightness-dependent switching operation for the pre-set delay time.

\section*{Auto/manual operation with series switch}

S1 open, S2 open: all off.
S1 closed, S2 closed: CONTINUOUSLY ON
S1 closed S2 open: controller operation

Auto manual mode with 3-step switch
1 Controller operation
2 All Off
3 CONTINUOUS ON


\section*{Switch-on by timer}

Timer programmed activation and shutdown of the Berker control unit.
No switching operation of the Berker control unit is performed, because only the load is switched on or off.

Parallel circuit with automatic staircase lighting switch or remote control switch
Lighting is switched by automatic units or Berker control units.

\section*{Operation of timer or flash relay}

Extension of delay time or operation of a clock relay (e.g. for flash circuit).


Operation of a relay or contact maker
For potential-free NO and NC contacts and to increase switching capacity.

Connection of multiple Berker control
 units - "with intelligent load linking" Caution: All parallel connected Berker control units must run on the same phase. Parallel connection does not increase the max. connected load.
The built-in microprocessor in conjunction with a voltmeter on the load cable means that all parallel connected Berker control units detect the switching on of a light. As long as a movement is detected by a Berker control unit, the lighting remains on. The delay time is restarted every time a movement is detected in the relevant Berker control unit. It expires only when no more movement it ithing time. This delay time is determined by the Berker control unit with the longest remaining time. This with no mutual interference.

\section*{Additional functions}

The Berker control unit permits 4 different operating modes, using push-button (NC) in the lead cable:

Press 1x:
non-brightness-dependent switch-on for the pre-set delay time, then brightness-dependent controller operation. the Berker control unit switches on for 4 hours, then brightness-dependent controller operation.
Press 2x:
Press 3x: brightness-dependent controller operation. test mode: brightness evaluation is disabled. The Berker control unit switches on for approx. 3 seconds when a movement is detected.

\section*{Limit cut-out}

Once the Berker control unit has switched on, the brightness is no longer evaluated. To prevent the lighting from remaining on when there is continuous movement in the detection range (e.g. after dawn), the unit is fitted with a limit cut-out. The delay time (time in which the light remains on after no more movement is detected) is shortened depending on the overall on time.
\begin{tabular}{ll} 
On time & Delay time \\
Up to 60 min. & Set time \\
Up to 70 min. & 4 minutes \\
Up to 75 min. & 2 minutes \\
Up to 80 min. & 1 min. \\
Up to 85 min. & 30 sec. \\
Up to 90 min. & 15 sec. \\
90 min. & cut-out
\end{tabular}

The Berker control unit thus cuts out after 90 minutes at the latest, even if there is continuous movement in the detection field. It is switched back on if the brightness falls below the pre-set value and there is movement.

\section*{Operating principle}

Controllers respond to heat movement in the infrared light band. It is in this range that the human body radiates heat. Lamps such as incandescent and halogen lamps etc. also emit considerable amounts of heat in this range too, however. As a result, the heat movement of people, animals or light sources can trip the controller, which then switches on consumers such as lighting. The unit remains on as long as movements are detected, otherwise the controller switches off at the end of the pre-set delay time. To prevent lights installed within the detection range tripping the controller, the controller response is delayed by 3 seconds.

\section*{BLC controller lush mounted}

\section*{BLC controller}

BLC controller comfort
Controller system mounting
Limitation of detection range to only \(90^{\circ}\) with masking element or by different mounting height
(at 2.2 m mounting)

\section*{Controller surface mounted}

Controller 70
Limitation of detection range by locked settings for ranges 4,6 or 8 m .

\section*{Automatic Controller Plus 110}

Limitation of detection range with masks and and covers, also by tilting and rotating.


Important planning criteria for controller installation
The mounting height of the controller as set out in the tables should be complied with, as failure to do so will result in restricted range or excessive range. At the recommended mounting height the detection height can be adjusted, depending on the controller, by means of tilting and locking and using the hoods, covers, masks and adhesive labels supplied, thereby avoiding unwanted switching. The ranges of the controllers/controller system sensors may vary due to the effects of weather conditions (fog, rain, snow). Where there is little temperature difference between the object being detected and the ambient temperature, range restrictions may occur.

\section*{Controller system sensors 180 and 240}

Limitation of detection range as desired with hood, also by tilting and rotating.
If the controller system sensor 240 is tilted, the detection angle should be reduced to \(180^{\circ}\), otherwise excessive lateral range will occur.

\section*{Lamps within the detection range}

The lamp being switched must not be placed in the immediate vicinity of or underneath the controller, because the radiated heat can cause unwanted switching. There should be adequate distance between the light and the controller.

\section*{Optimum mounting location}

For optimum detection and range for movement, Berker controllers should be installed laterally to the direction of walking. The controller's detection beams are then crossed laterally. When using multiple controllers and/or extension units, the detection ranges of the individual controllers should overlap, in order to ensure optimum monitoring. If the controller is placed such that the person being detected approaches the unit only frontally, range restriction is to be expected. For this a controller with enhanced approach response (controller 70, Berker control) should be configured.

\section*{Detection for large areas}

For detection in larger areas (squares, long corridors etc.) in which the detection angle of an individual controller is not sufficient, controllers with extension units, a controller system, networked Berker controls or radio controllers should be deployed, with the detection ranges of the individual devices overlapping. Parallel connection of controllers is not advisable, because it may cause so-called reciprocal action (switching back on again after a short cut-out of approx. 3 sec ).

\section*{Curtaining effect and range optimization}

By tilting the controller downwards its range can be steplessly adjusted Detection then occurs only in the close-up range. When using the controller system sensor 240, detection can be further optimized by reducing the sensitivity.

\section*{Installation location}

The controller should be protected against direct rainfall, because rain drops on the lens may cause unwanted switching.
A special protective screen in front of the controller protects it against the effects of thermal influence.


During installation
When installing the controller, it should be ensured that the lens is not exposed to direct sunlight (otherwise the sensor may be damaged). In a horizontal position the detection beams may point directly at the sun (see illustration). It is therefore advisable to keep the sensor head away from sunlight until it is mounted on the housing body.


\section*{Accessories}

Use of the mounting accessories allows the controllers to be fixed at difficult locations, such as on ceilings or masts, or in corners.


\section*{Controller system}

The controller system can be used wherever multiple controllers are used to switch the same load. The controller system is installed as described below.

\section*{Connection:}

\section*{Important!}

Each controller system sensor has a brightness sensor, but only one brightness sensor may be connected within a system, i.e. the "Lx" terminal is assigned to only one controller system sensor. Only this controller system sensor measures the brightness and forwards this value to the controller system power section for evaluation. In figures 1 and 2 the controller system sensor with the active brightness sensor is identified by an "X".

\section*{Cabling}

Connection in parallel as per Figure 1 or in star configuration as per Figure 2. Mixed forms are also permissible.
Communication lines are recommended for connection of the controller system sensors, e.g. JY-ST-Y \(2 \times 2 \times 0.8\) or YR \(4 \times 0.8\)


\section*{Diagnosis LED}

To enable the controller system to be tested accurately, the controller system sensors are fitted with a testing and diagnosis LED. This LED lights up in response to every movement, regardless of brightness.
This enables the functioning to be checked and the detection range adjusted without switching on the load



Connection of multiple controller system powerpacks to a single controller system sensor cable is not permissible, malfunctions will result. To increase the connected load use a contact maker.

\section*{Connecting terminals:}
+,-: Power supply 15V=
S: Switch signal
Lx: Brightness signal
Lxo: Unconnected terminal, which can be used to loop-through the Lx signal.

\section*{Limit switch-off}

If the controller system power pack is switched on, the response brightness is no longer evaluated. However, so that even when there is constant motion in the detection area (e.g. after dawn) the lighting does not remain switched on unnecessarily, the controller system power pack is equipped with a limit switch-off.
The delay time (time in which the light still remains switched on after no more motion is detected) is automatically shortened depending on the entire on-time. The controller system power pack thus switches off (even if there is constant movement in the detection area of the controller system sensors), at the latest after 90 minutes. It switches on again when the brightness drops below the set response brightness and there is motion in the detection area.


Crawl-under protection
The controller system sensor 240 has separate crawl-under protection. This means that movements underneath the controller system sensor are also detected, right up to the house wall. This results in an even higher degree of security.

\section*{Connection diagrams}

Controllers/controller system power pack 230 V
By combining controllers/controller systems with push-buttons or switches, different switching variants can be implemented


\section*{Controller (control) /}

CONTINUOUSLY ON
The "S" switch allows changing over between controller operation and CONTINUOUSLY ON.
When the controller is switched on and CONTINUOUSLY ON is set, the neon lamp unit is lit.


\section*{Changeover switching}

Existing changeover switches can be replaced by push-button "T" (NCC). Pressing the "T" (NCC) push-button once for min. 1 sec . activates a non-brightness-dependent switching operation for the set delay time.


\section*{With push-button (NCC)}

Pressing the "T" push-button NCC for min. 1 sec . activates a non-brightness-dependent switching operation for the pre-set delay time.


\section*{Operation of a relay or}

\section*{contact maker}

For potential-free NOC and
NC and to increase
switching capacity.


Controller / CONTINUOUSLY ON The "S" switch allows changing over between controller operation and CONTINUOUSLY ON.


Multiple controllers / controller systems on one consumer Pressing the push-button "T" NCC for min. 1 sec . activates a non-brightness-dependent switching operation for the set delay time.


\section*{Switch-on by timer}

Timer programmed switch-on of the controller.


Switch off
Using "S1" or "S2" switch. When switching back on, "S1" activates a switching operation of the controller for the pre-set delay time.
"S2" does not, as only the load is switched on or off.


Auto/manual operation with series switch
S1 open, S2 open: all off.
S1 closed, S2 closed:
CONTINUOUSLY ON
S1 closed S2 open: controller operation.


\section*{Parallel circuit with automatic} staircase lighting switch or remote control switch
Lighting is switched by automatic units or controller / controller system.


Controller / CONTINUOUSLY ON
changeover switching
The "S" switch allows changing over between controller operation and CONTINUOUSLY ON.


Auto manual mode with
3-step switch
1 Controller operation
2 All Off
3 CONTINUOUS ON


Operation of timer or flash relay
Extension of the delay time or operation of a clock relay (e.g. for flash circuit).

Control units 1-10 V
Increasingly in lighting engineering, electronic ballasts and Tronic transformers fitted with a \(1-10 \mathrm{~V}\) interface are being deployed to operate lighting (such as fluorescent lamps, 12 V halogen lamps). If multiple devices are connected using a single control wire with \(1-10 \mathrm{~V}\) control inputs, the 1-10 V electronic potentiometer can be used to adjust the brightness from a remote location. The push-button control unit 1-10 V built-in and the BLC can be used to adjust the lighting to individual needs from different points. In this way, extensive and complex light systems can be implemented.
The control units \(1-10 \mathrm{~V}\) (electronic rotary potentiometer, electronic touch rotary potentiometer 1-10 V and push-button control unit 1-10 V built-in) from Berker are used to switch the electronic ballast mains voltage on and off as well as for problem-free adjustment of the control voltage at the 1-10 V interface of the devices.
The \(1-10 \mathrm{~V}\) electronic potentiometer is covered by a centre plate with regulator knob and frame, in keeping with the familiar dimmer design.

\begin{tabular}{lrl} 
Technical data & Electronic rotary potentiometer 1-10 V order no. 289110 \\
Max. control voltage \(U_{S T}\) max. & 12 V \\
Min. control voltage \(U_{S T}\) min. & 0.7 W \\
Max. control current \(I_{S T}\) & 50 mA \\
Max. switching capacity of mains switch & 1380 VA or 6 A at \(230 / 240 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}\) \\
Fine-wire fuse & F 500 H 250 \\
Operating temperature & 5 to \(355^{\circ} \mathrm{C}\) \\
Terminals & &
\end{tabular}

\section*{Electronic touch rotary potentiometer \(\mathbf{1 - 1 0} \mathbf{V}\) e.g. two operating points \\  \\ Changeover-switching \\ To other electronic ballasts and/or Tronic
transformers with \(1-10 \mathrm{~V}\) control input}

Technical data \(\quad\) Electronic touch rotary potentiometer 1-10 V order no. 289610
Max. control voltage \(U_{S T}\) max.
Min. control voltage \(U_{S T}\) min.
Max. control current IST
0.7 W

Max. switching capacity of mains switch 1380 VA or 6 A at 230/240 V~ \(50 / 60 \mathrm{~mA}\) Fine-wire fuse F500 H 250
Operating temperature 5 to \(35^{\circ} \mathrm{C}\)
Terminals Screw-type terminals for max. \(2.5 \mathrm{~mm}^{2}\) or \(2 \times 1.5 \mathrm{~mm}^{2}\)

Example:
The total of electronic ballast control currents with the electronic rotary potentiometer 1-10 V may be max. 50 mA , and the sum total of electronic ballast load currents (consider the inrush current) may be max. 6 A . Follow the ballast and lighting manufacturers' specifications regarding the control and load currents (with inrush currents).
Typical: Osram electronic ballast \(2 \times 58 \mathrm{~W}\), control current \(\mathrm{I}_{\mathrm{ST}}=6 \mathrm{~mA}\), Load current \(\mathrm{I}_{\mathrm{L}}=\) 0.55 A per electronic ballast. 83 electronic ballasts are connected
\(\mathrm{I}_{\mathrm{ST}}=83 \times 0.6 \mathrm{~mA}=\) approx. \(50 \mathrm{~mA} ; \quad \mathrm{I}_{\mathrm{L}}=83 \times 0.55 \mathrm{~A}=45,7 \mathrm{~A}\)

\section*{Result:}

The control contact is fully loaded.
Since electronic ballasts have an electrolytic capacitor in their input circuit, high inrush currents are to be expected. If the permissible number of ballasts is exceeded (see table), a contactor must be used to switch them, or an inrush current limiter, order no. 0185 must be connected in series upstream of the respective ballast.
Maximum number of electronic ballasts 58 W that can be switched without additional fittings.
Electronic potentiometer 1-10 V: 5 two-lamp or 10 one-lamp Osram electronic ballasts 15 two-lamp or 30 one-lamp electronic ballasts Insta 42 W, 13 Berker Tronictransformer 20-105 W
Touch control unit 1-10 V built-in: 5 two-lamp or 10 one-lamp electronic ballasts Insta 42 W

\section*{Push-button control unit 1-10V built-in}
\begin{tabular}{|c|c|}
\hline  & inrush current limiters. \\
\hline Technical data & Push-button control unit 1-10 V built-in Order no. 2872 \\
\hline Nominal voltage & \(230 \mathrm{~V} \mathrm{\sim}, 50 / 60 \mathrm{~Hz}\) \\
\hline Control voltage & 1-10 V \\
\hline Max. control current IST & 200 mA \\
\hline Switching contact & Relay \\
\hline Ohmic load & 2300 W \\
\hline Electronic ballast, transformers & type-dependent \\
\hline Short-circuit protection & via 10 A circuit breaker \\
\hline No-load proof & Yes \\
\hline Electrical isolation 1-10 V & 2 kV base installation \\
\hline Operating temperature & 5 to \(50^{\circ} \mathrm{C}\) \\
\hline Terminals & Screw-type terminals for max. \(2.5 \mathrm{~mm}^{2}\) or \(2 \times 1.5 \mathrm{~mm}^{2}\) \\
\hline & \\
\hline
\end{tabular}

Tronic transformer with 1-10 V interface on push-button control unit 1-10 V built-in


Push-button control unit 1-10 V built-in with signal amplifier 1-10 V


Push-button control unit 1-10 V built-in / daylight-sensitive control (constant light control)


\section*{Tronic transformer with 1-10 V interface}

In complex modern lighting systems, lamps are increasingly being operated by way of electronic ballasts (German:"EVGs") fitted with a 1-10 V interface.
This permits convenient dimming even of high power outputs from one central point or from several distributed points. This 1-10 V interface is now offered with the Tronic transformer.
Up to 50 Tronic transformers with 1-10 V interface can be regulated on the control side with an electronic rotary potentiometer \(1-10 \mathrm{~V}\) and up to 250 with the push-button control unit 1-10 V built-in. This allows electronic ballasts to be combined with 1-10 V interfaces. When dimensioning a system, the control and load currents must be considered separately!
\begin{tabular}{lr} 
Technical data & \(230 \mathrm{~V} \sim, 50 \mathrm{~Hz}\) \\
Nominal voltage & 0.45 A \\
Primary rated current at full load & \(20-105 \mathrm{~W}\) \\
Power range & 0.96 \\
Power factor & \(95 \%\) \\
Efficiency \(\lambda\) & 11.8 V \\
Rated output voltage \\
Softstart & Bulb-preserving switch-on \\
Control current & approx. 0.8 mA \\
Operating temperature ta & max. \(50^{\circ} \mathrm{C}\) at maximum load
\end{tabular}

\section*{Info pilot lamp}

The info pilot lamp is marked by uniform illumination and clear visibility (even from the side). The labelled sheet selected from the supplied range can optionally be placed above or below the factory-fitted milky cover, depending on whether the notice (or pictograph) is to be visible at all times or visible only when the light signal is on. By the use of a monitoring switch, the on state of the info pilot lamp can also be also indicated at a different location.

Application: e.g. in waiting rooms, outside of conference rooms, doctors' surgeries, etc.


\begin{tabular}{lr} 
Tronic transformer with \(\mathbf{1 - 1 0} \mathbf{~ V}\) interface & Order no. \(\mathbf{2 9 7 7}\) \\
\hline Housing temperature tc & \(75^{\circ} \mathrm{C}\) at maximum load \\
Secondary lead & max. 2 m long, min \(1.5 \mathrm{~mm}^{2}\) \\
Short-circuit protection & electronic, automatic restart \\
Overload/temp. protection & Automatic power reduction \\
Fire prevention & cut-out in case of fault \\
Open circuit & Protected \\
\begin{tabular}{lr} 
Dimmable & via \(1-10 \mathrm{~V}\) interface \\
Protection class & II \\
Terminals & Screw-type terminals for max. \(2.5 \mathrm{~mm}^{2}\) or \(2 \times 1.5 \mathrm{~mm}^{2}\)
\end{tabular}
\end{tabular}

\section*{Self-production of text and graphical signs}

Using a computer and appropriate software, it is possible to produce your own text and/or graphical signs. They can be printed in colour or monochrome black using an inkjet or laser printer, on transparent projector sheets.

\section*{Cutting template}

\begin{tabular}{lr} 
Technical data & Insert and info pilot lamp cover with 5 label sheets \\
Rated voltage & \(230 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}\) \\
Nominal current & approx. 25 mA \\
LED power & approx. 800 mW \\
Switching frequency & any \\
Service life & 25,000 hours \\
Light colour & white \\
Operating temperature & 10 to \(30{ }^{\circ} \mathrm{C}\) \\
Index of protection & IP 20 \\
Terminals & \\
Order no.: insert & Screw-type terminals for max. \(2.5 \mathrm{~mm}^{2}\) or \(2 \times 1.5 \mathrm{~mm}^{2}\) \\
Order no.: cover & 2949 \\
\hline
\end{tabular}


\section*{Technical data \\ DALI voltage (IEC 60929)}

Rotary potentiometer DALI order no. 2897

DALI control line length max

Operating temperature
Terminals

Tronic transformer for 12 V halogen lamps
- Bulb-preserving soft startup
- Very low noise
- Short circuit proof
- No fuse changing
- Automatic restart
- Overload and excess temperature-
proof by power reduction
- Input and output electrically isolated
- Safety extra low voltage (SELV)
- Tronic dimmer, universal dimmer and Tronic transformer are specially co-ordinated for use together (no interference)
Berker Igel also dimmable with LV dimmers
- Flicker free

Light weight
Low loss
- Output voltage almost independent of load


\section*{Installation configurations of Tronic transformers}

\section*{Distance of light from}
\(\qquad\)

Tronic transformers 40, 70, 105 and 150 W


Tronic transformer 200 W


\section*{Secondary cable length}


\section*{Overvoltage protection module}



Switch-off


1 overvoltage protection module is sufficient for 10 Tronic transformers In dimmed installations, connect overvoltage protection module
dimmer (see wiring diagram)
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{2}{|l|}{Tronic transformer} &  &  & \[
\begin{aligned}
& 3 \\
& \text { no } \\
& \text { No } \\
& \text { N } \\
& \text { No } \\
& \text { No }
\end{aligned}
\] &  &  &  &  &  \\
\hline \multirow[t]{3}{*}{Design} & Cubic design \(\square \square\) & X & X & X & X & X & X & X & X \\
\hline & Screw type terminals \((X)=\) Primary side only & & & X & X & (X) & X & X & X \\
\hline & Cable clamp & & & X & X & X & X & X & X \\
\hline \multirow[t]{7}{*}{Rated power / Ambient temperature} & 10-40 W at ambient temp. \(50^{\circ} \mathrm{C}\) & X & & & & & & & \\
\hline & 20-60 W at ambient temp. \(50^{\circ} \mathrm{C}\) & & X & & & & & & \\
\hline & 20-70 W at ambient temp. \(40^{\circ} \mathrm{C}\) & & X & & & & & & \\
\hline & 20-70 W at ambient temp. \(50^{\circ} \mathrm{C}\) & & & & & & & & \\
\hline & 20-105 W at ambient temp. \(50^{\circ} \mathrm{C}\left(45{ }^{\circ} \mathrm{C}\right)\) & & & (X) & X & X & X & & \\
\hline & 20-150 W at ambient temp. \(50^{\circ} \mathrm{C}\) & & & & & & & X & \\
\hline & 50-200 W at ambient temp. \(50^{\circ} \mathrm{C}\) & & & & & & & & X \\
\hline Rated alternating voltage & \(230 \mathrm{~V} \sim(\mathrm{also} 240 \mathrm{~V} \sim), 50 / 60 \mathrm{~Hz}\) [230 V , 50 Hz and \(230 \mathrm{~V}=\) ] & X & X & ( \({ }^{\text {) }}\) & ( \({ }^{\text {) }}\) & X & 50 Hz & X & [ X ] \\
\hline Effective output voltage & at 230 V ~ & 11.8 & 11.7 & 11.3 & 11.8 & 11.8 & 11.8 & 11.7 & 11.5 \\
\hline \multirow[t]{5}{*}{Mains current} & at \(40 \mathrm{~W}, 0.18 \mathrm{~A}\) at 230 V ~ & X & & & & & & & \\
\hline & at \(70 \mathrm{~W}, 0.33 \mathrm{~A}\) at 230 V ~ & & X & & & & & & \\
\hline & at \(105 \mathrm{~W}, 0.49 \mathrm{~A}(0.45 \mathrm{~A})\) at \(230 \mathrm{~V} \sim\) & & & (X) & (X) & (X) & X & & \\
\hline & at \(150 \mathrm{~W}, 0.71 \mathrm{~A}\) at \(230 \mathrm{~V} \sim\) & & & & & & & X & \\
\hline & at \(200 \mathrm{~W}, 0.95 \mathrm{~A}\) at \(230 \mathrm{~V} \sim\) & & & & & & & & X \\
\hline Power factor \(\lambda\) & 0.96 & X & X & X & X & X & X & X & X \\
\hline Efficiency & 95 \% & X & X & 92 \% & X & X & X & X & X \\
\hline \multirow[t]{7}{*}{Number of lights} & \(5 \mathrm{~W} \times\) & 8 & 17 & 21 & 21 & 21 & 21 & 30 & 40 \\
\hline & \(10 \mathrm{~W} \times\) & 4 & 7 & 10 & 10 & 10 & 10 & 15 & 20 \\
\hline & 20 W x & 2 & 3 & 5 & 5 & 5 & 5 & 7 & 10 \\
\hline & \(35 \mathrm{~W} \times\) & 1 & 2 & 3 & 3 & 3 & 3 & 4 & 5 \\
\hline & \(50 \mathrm{~W} \times\) & & 1 & 2 & 2 & 2 & 2 & 3 & 4 \\
\hline & \(75 \mathrm{~W} \times\) & & & 1 & 1 & 1 & 1 & 2 & 2 \\
\hline & \(100 \mathrm{~W} \times\) & & & 1 & 1 & 1 & 1 & 1 & 2 \\
\hline \multirow[t]{2}{*}{Housing} & Fracture-proof, heat resistant & X & X & X & X & X & X & X & X \\
\hline & unpotted, repairable & X & X & X & X & X & X & X & X \\
\hline \multirow[t]{6}{*}{Housing temperature} & at 40 W max. \(85^{\circ} \mathrm{C}\) & X & & & & & & & \\
\hline & at 60 W max. \(75^{\circ} \mathrm{C}\) & & X & & & & & & \\
\hline & at 70 W max. \(90^{\circ} \mathrm{C}\) & & X & & & & & & \\
\hline & at 105 W max. \(75^{\circ} \mathrm{C}\left(80^{\circ} \mathrm{C}\right)\left[100^{\circ} \mathrm{C}\right]\) & & & (X) & (X) & (X) & [ X ] & & \\
\hline & at 150 W max. \(75^{\circ} \mathrm{C}\) & & & & & & & X & \\
\hline & at 200 W max. \(65^{\circ} \mathrm{C}\) & & & & & & & & X \\
\hline Weight & approx. in grams & 65 & 70 & 160 & 150 & 150 & 220 & 190 & 420 \\
\hline Fire / Cut-out & Input side in case of fault & X & X & X & X & X & X & X & X \\
\hline Short-circuit-proof & Electronic cut-out & X & X & X & X & X & X & X & X \\
\hline Restart & Automatic after elimination of fault & X & X & X & X & X & X & X & X \\
\hline Overload and excess temperature-proof & by power reduction & X & X & X & X & X & X & X & X \\
\hline Protective insulation & Protection class III & X & X & X & X & X & X & X & X \\
\hline Safety & VDE 0860 (07 12/24) \(=00\) & X & X & X & X & X & X & X & X \\
\hline Radio interference suppression & VDE 0875 part 2 (1) & X & X & X & X & X & X & X & X \\
\hline Cable recommended H 05 VV-F \(2 \times\)... & secondary: max. 2 m (1 m), min. \(2 \times \mathrm{mm}^{2}\) & 0.75 & 0.75 & 1.5 & (1.5) & 1.5 & 1.5 & (2.5) & 2.5 \\
\hline Open circuit & Protected & X & X & X & X & X & X & X & X \\
\hline Spike protection & to VDE 0712 part 25 & X & X & X & X & X & X & X & X \\
\hline Bulb-preserving soft start & No current spikes & X & X & X & X & X & X & X & X \\
\hline \multirow[t]{2}{*}{Test mark} & 会 & X & X & X & X & X & & X & X \\
\hline & 或 & X & X & X & X & X & & X & X \\
\hline Suitable for installation in furniture & W/M & & X & X & X & X & & X & X \\
\hline Dimmable phase cut-off & With Tronic and universal dimmers & X & X & * & X & X & & X & X \\
\hline Dimmable phase cut-on & With LV dimmers & & & * & & & & & \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|}
\hline Designation & Order No.: & Release version & Production date (from week / year) & Details \\
\hline Rotary dimmer LV with soft lock & 2873 & & & Igel Minimum load 50 W \\
\hline Tronic rotary dimmer with soft lock & 2874 & & & \\
\hline Universal rotary dimmer with soft lock & 286110, 283410, 283411 & & 2202 & \\
\hline BLC push-button dimmer LV & 2904 & ab R2 & & Igel Minimum load 50 W \\
\hline BLC universal touch dimmer & 2902 & ab R2 & & \\
\hline Universal-Serientastdimmer & 2901 & & & \\
\hline Universal touch dimmer RMD Plus & 016701 & & & \\
\hline Universal booster RMD Plus & 016501 & & & \\
\hline Tronic touch dimmer built-in & 2943 & & & \\
\hline Corded slide dimmer LV & 2744. & & & Igel Minimum load 50 W \\
\hline Radio universal dimmer flush-mounted & 94550200 & & & \\
\hline Radio adapter plug dimmer & 01781009 & & & \\
\hline Radio universal corded dimmer & 0128 & & & \\
\hline Radio universal dimmer built-in & 0181 & & & \\
\hline Radio universal dimmer RMD & 94550100 & & & \\
\hline Univ. dim actuator 1gang 50-210 WNA flush-mounted 753410 & & & & \\
\hline Univ. dim actuator 1gang 50-500 WNA RMD & 75311007 & & 2202 & \\
\hline Univ. dim actuator 2gang \(2 \times 300\) W/NA RMD & 75312007 & & 2202 & \\
\hline Univ. dim actuator 4gang 4x210 WNA RMD & 75314017 & & & \\
\hline Tronic dim actuator 1 gang 20-215 W & 75331002 & & & \\
\hline Tronic dim actuator 1gang 20-500 W & 75331005 & & & \\
\hline
\end{tabular}

As a matter of principle, residential buildings shall always conform at least to equipment category 1. This corresponds to the current minimum requirements for needs-based electrical installation. It also applies to Instabus EIB installations in residential buildings.
 for telecommunications should be at least 2gang socket combinations; those alongside aerial sockets should be at least 3gang socket combinations. They each count however according to the table as one outlet.

A telephone wall socket should be combined with the aerial sockets.
- If the number of sockets, outlets and connections is increased, the number of circuits must also be increased.
- If electric doors, gates, blinds and shutters are installed, the number of circuits must be increased.

In rooms with more than one door or in stairwells the lighting should be operable from at least two points. Access paths, building main doors including doorbell panels and steps, must be adequately lit. If there is no permanent lighting in hours of darkness, additional facilities
such as controllers or comparable automatic switching devices should be fitted. Light systems for stairwells, lift areas in apartment blocks and lobbies should be fitted with programmable automatic cut-outs. To avoid sudden darkness, the automatic cut-out must provide a warning, such as dimming. The switches and push-buttons in these rooms must be identifiable in darkness, e.g. by means of a built-in lamp.
- Power sockets installed in the open air should be protected against unauthorised use, e.g. by a lock mechanism or cut-out.
- To permit subsequent deployment of Instabus EIB, it is recommended to install a ready made-up bus cable or unoccupied conduit system during electrical installation.
In rooms for special uses, such as hobby rooms, separate circuits should be configured for lighting and wall sockets where appropriate.
- Cellar and basement rooms forming part of the dwelling must be protected by additional circuits.

A doorbell must be provided for each dwelling, for buildings with more than two dwellings a door opening system should also be fitted in conjunction with an intercom.


Inductively or capacitively inserted overvoltages are discharged against neutral and ground conductors with the aid of thermally monitored varistors and gas arresters.
Temperature monitoring to DIN VDE 0845 Part 1
\begin{tabular}{lr} 
Technical data & \(230 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}\) \\
Rated voltage & 16 A \\
Rated current IN & \(<2.3 \mathrm{~mA}\) \\
Operating current IC at Ur & \(255 \mathrm{~V} \sim\) \\
Arrester rated voltage Ur & \(<1 \mu \mathrm{~A}\) \\
Leakage current to ground conductor at Ur & \(1.5 \mathrm{kA}(100 \mathrm{x})\) \\
Rated discharge current Isn (8/20) \(\mu \mathrm{s}: ~ s y m ~ / ~ a s y m\) & \(4.5 \mathrm{kA}(1 \mathrm{x})\)
\end{tabular}

\section*{SCHUKO socket with overvoltage protection}

The applications for the SCHUKO socket with overvoltage protection are in power supply unit protection e.g. for IT systems, medical equipment, instrumentation and control equipment, and TV, video and audio equipment. The basic circuit comprises a combination of varistors and gas filled surge arresters. Varistors can be overloaded by excessive or frequent overvoltage.
The consequence is an increase in leakage current through the components, and an associated increase in heat. For this reason the varistors are monitored by a thermal cut-out and isolated from the mains power before they become too hot; the mains voltage remains connected. The cut-out is signalled by the red indicator lamp on the socket cover. At the same time an acoustic fault alarm (buzzer) is activated
Unplugging the appliance stops the acoustic alarm. The visual signal is not dependent on whether a plug is in the socket or not. The lamps incorporated into the socket have the following meanings:
Green lamp lit: mains voltage present
Red lamp lit (buzzer sounds): the thermal cut-out has tripped, the overvoltage protection function is no longer operational. The SCHUKO socket with overvoltage protection needs to be replaced.

\section*{Combination with SCHUKO sockets}


SCHUKO socket with overvoltage protection
Protection level: phase/neutral (phase/ground; neutral/ground)
\(<1.2 \mathrm{kV}(1.5 \mathrm{kV})\) Response time ta: sym / asym 25 ns / Response time ta: sym / asym
Arrester of requirement class
Arrester of requirement class EN 61643-11 and VDE 0675 part 6-11 arrester type 3 , D Overvoltage protection to EN 61643-11 and VDE 0675 part 6-11 arrester type 3, One Por Connecting terminals: screwed connection (rigid) 2.5 mm Temperature range -5 to \(40^{\circ} \mathrm{C}\) Order no.:

\section*{Overvoltage protection module}


\section*{Inrush current limiter}


The inrush current limiter limits the lamp inrush current of problem loads such as energy-saving lamps (this is 32 A per lamp for the Osram Dulux EL),
compact fluorescent lamps and fluorescent lamps with electronic ballast (up to 25 A per lamp) to a level that can be carried by a mechanical switch Not suitable for dimmers or electronic switches such as BLC Triac or Tronic switch insert


A 1 overvoltage protection module is sufficient for 10 Tronic transformers. is sufficient for 10 Tronic transform
In dimmed installations, connect In dimmed instaliations, connect
overvoltage protection module befor dimmer (see wiring diagram)
Switch-off
\begin{tabular}{lr} 
Overvoltage protection module & Order no. 0142 \\
Residual voltage \(\mathrm{I}_{\mathrm{S}}(1 \mathrm{kA})\) & approx. 1000 V \\
Operating temperature & -25 to \(80^{\circ} \mathrm{C}\) \\
Connections & flexible cable \(1.5 \mathrm{~mm}^{2} 200 \mathrm{~mm}\) long
\end{tabular}


Basic circuit with inrush current limiter

\section*{Thermostats}

The thermostat controls the temperature in enclosed spaces, such as in flats, schools, workshops.

The device should be fitted approx. 1.5 m above the floor, prefrably opposite the heating source on an interior wall.

\section*{Control levels}

The required temperature is set manually using the adjusting knob. The scaling on the thermostats at optimum installation location corresponds to approx.:


\section*{Thermostat, change-over contact [2026 ..]}

Connection


Figure 1: Wiring of thermostat, change-over contact

\section*{Thermostat, NC contact [2030.., 2031..]}

\section*{Connection}

L Outer conductor
N Neutral conductor
4 Load connection
RF Resistor for thermal re-circulation
TA Resistor for night lowering of the room temperature
(2) add. Timer or (switch) for night / lowering temperature

T> Bimetal contact (temperature evaluation)


Figure 2: Wiring of thermostat, NC contact

\section*{Thermostat for underfloor heating [2034..]}

This thermostat controls the temperature of underfloor heating systems. The mains switch switches the heating on or off. The required temperature is set using the adjusting knob. If the temperature is fallen short of, the control device requests heat. The red LED lights up on the controller. The night lowering can be activated with an upstream timer (s. Figure 2) or with a control switch. The green LED lights up briefly. The temperature is lowered by approx. \(5^{\circ} \mathrm{C}\).

\section*{Assembly and electrical connection}

To ensure that the control accuracy is not reduced, select installation location:
- without any draughts from windows and doors
- not within shelving units or behind curtains and similar coverings
- without direct sunlight
- not close to televisions, radios and heaters, lamps, chimneys and heating pipes
* If controllers and dimmers are installed in a multiple-frame structure, the chosen distance between both devices should be as large as possible. In the case of an arrangement one above the other, the controller should be mounted below the dimmer.
Since the controller does not work without thermal re-circulation, the neutral conductor must be connected to the terminal \(\mathbf{N}\) in order to avoid extreme temperature fluctuations during controlling.
A protective earth is not necessary. The device is insulated.

Technical data
\begin{tabular}{lr}
\hline Thermostat, change-over contact & Order no. 2026.. \\
\hline Temperature range & \(5 \ldots 30^{\circ} \mathrm{C}\) \\
Rated voltage & \(250 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}\) \\
Rated current heating & \(10 \mathrm{~A}, 4 \mathrm{~A} \cos \varphi=0.6\) \\
Rated current cooling & \(5 \mathrm{~A}, 2 \mathrm{~A} \mathrm{cos} \varphi=0.6\) \\
Switching capacity heating & 2.2 kW \\
Switching capacity cooling & 1.1 kW \\
Power consumption & 0.15 W \\
Switching temperature difference & approx. \(0.5^{\circ} \mathrm{C}\) \\
\hline
\end{tabular}

\section*{Technical data}
\begin{tabular}{lr}
\hline Thermostat, NC contact & Order no.: \(\mathbf{2 0 3 0}\) \\
\hline Temperature range & \(5 \ldots 30^{\circ} \mathrm{C}\) \\
Rated voltage & \(250 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}\) \\
Rated current & \(10 \mathrm{~A}, 4 \mathrm{~A} \mathrm{cos} \varphi=0.6\) \\
Breaking capacity & 2.2 kW \\
Power consumption & 0.15 W \\
with night lowering & 0.3 W \\
Switching temperature difference & approx. \(0.5^{\circ} \mathrm{C}\) \\
Temperature lowering & approx. \(4^{\circ} \mathrm{C}\)
\end{tabular}
\begin{tabular}{lr}
\hline Thermostat, NC contact, 24 V DC & Order no.: 2031 \\
\hline Temperaturbereich & \(5 \ldots 30^{\circ} \mathrm{C}\) \\
Rated voltage & \(24 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz} ; 24 \mathrm{~V}=\) \\
Rated current & 10 A at \(\sim, 4.1 \mathrm{~A}\) at \(=\) \\
Breaking capacity & 240 W at \(\sim, 100 \mathrm{~W}\) at \(=\) \\
Power consumption & 14.4 mW \\
with night lowering & 28.8 mW \\
Switching temperature difference & approx. \(0.5^{\circ} \mathrm{C}\) \\
Temperature lowering & approx. \(4^{\circ} \mathrm{C}\) \\
\hline
\end{tabular}

\section*{Temperature sensor [0161]}

To measure the temperature, the sensor in the floor is installed in a protective tube so that it is between 2 heating conductors.


Figure 3: Dimensions of temperature sensor

The sensor cable can, if necessary, be extended using a 2-wire cable of \(1.5 \mathrm{~mm}^{2}\) cross section without influencing the precision of the controller

When laying the cable ducts or when close to high current conductors, a shielded wires should be used.

\section*{Sensor characteristic values for the precise switch points:}

Measurement device with \(R_{i}>1 \mathrm{M} \Omega\)
\begin{tabular}{clll}
\(5^{\circ} \mathrm{C}\) & \(85.279 \mathrm{k} \Omega\) & \(10^{\circ} \mathrm{C}\) & \(66.785 \mathrm{k} \Omega\) \\
\(15^{\circ} \mathrm{C}\) & \(52.33 \mathrm{k} \Omega\) & \(20^{\circ} \mathrm{C}\) & \(41.272 \mathrm{k} \Omega\) \\
\(25^{\circ} \mathrm{C}\) & \(33.00 \mathrm{k} \Omega\) & \(30^{\circ} \mathrm{C}\) & \(26.281 \mathrm{k} \Omega\) \\
\(35^{\circ} \mathrm{C}\) & \(21.137 \mathrm{k} \Omega\) & \(40^{\circ} \mathrm{C}\) & \(17.085 \mathrm{k} \Omega\) \\
\(45^{\circ} \mathrm{C}\) & \(13.846 \mathrm{k} \Omega\) & \(50^{\circ} \mathrm{C}\) & \(11.277 \mathrm{k} \Omega\)
\end{tabular}

The resistance values can only be measured when the sensor is disconnected.

\section*{Connection for operation with sensor and timer}

L Outer conductor
N Neutral conductor
4 Load connection
TA Resistor for night lowering of the room temperature
(D) Timer or (switch) for night / lowering/temperature

NTC connection for temperature sensor


Figure 4: Wiring of thermostat for underfloor heating, NO contact, with on/off switch and 2 LEDs

Technical data
\begin{tabular}{lr}
\hline Thermostat for underfloor heating & Order no. 2034.. \\
\hline Temperature range & \(10 \ldots 50^{\circ} \mathrm{C}\) \\
Rated voltage & \(230 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz} ; 230 \mathrm{~V}=\) \\
Switching current (ohmic load) & \(10 \mathrm{Acos} \varphi=1\) \\
Breaking capacity & 2.3 kW \\
Power consumption & 0.14 W \\
with night lowering & 0.28 W \\
Switches, 1-pole & ON/OFF \\
Contacts (relay) & 1 NO contact (for heating) \\
& not potential-free \\
approx. \(0.5^{\circ} \mathrm{C}\) \\
Temperature lowering & approx. \(1^{\circ} \mathrm{C}\) \\
Switching temperature difference & NTC \\
Sensor element & PVC \(2 \times 0.75 \mathrm{~mm}{ }^{2}\) \\
Sensor cable & 4 m \\
Cable length & IP 67 \\
\hline Protection class according to EN 60529 & \\
\hline
\end{tabular}

\section*{RolloTec}

Error on parallel switching of conventional tubular motors.


Figure 1: Parallel-switched conventional tubular motors

When the switch is actuated, both drives are switched for the same running direction. When drive 1 has reached the limit position, the limit position switch L2 opens. Drive 2 can still be functioning, however, and actuates drive 1 in the opposite running direction by means of a feedback voltage via its capacitor. E2 is shut again after a short time. As a result, drive 1 runs in the original direction again until the contact L2 is reopened.
These switching operations cause a pendulum motion of the roller blind. Since the feedback voltage can be up to 1000 V and many switching position changes occur in a very short time, the limit position switch E2 is overloaded. Weld the contacts. The limit switch is disabled in this running direction. The motors are destroyed.

Overloading of the limit switches through parallel switching of conventional tubular motors. Motors or roller blinds may be destroyed. For joint control, use Berker cutoff relays or electronic tubular motors, such as those from Becker, Elero or Selve.

\section*{RolloTec cutoff relay}

RolloTec cutoff relays are mounted in water-protected junction boxes or in deep flush-mounted sockets, e.g. behind a blanking cover or RolloTec insert.
RolloTec cutoff relays RMD are snapped onto the 35 mm DIN hat profile rail.
- The following variants are available, depending on the operating concept
- RolloTec cutoff relay [2930] and RolloTec cutoff relay RMD [2931] for simultaneous movement of two motors using one control section
- RolloTec cutoff relay [2969] and RolloTec cutoff relay RMD [2919] with extension circuits for simultaneous movement of two motors using one control section or separate operation of the individual motors.

Connect a maximum of 6-8 motors to one miniature circuit-breaker (note current consumption). Provide additional miniature circuitbreakers for extensions


Figure 2: Installation plan for cutoff relay

\section*{Connection of motors with cutoff relay}

N cable required at the terminal connection.


Figure 3: Connection diagram for RolloTec cutoff relay

\section*{Connection of motors with cutoff relay RMD}

N cable required at the terminal connection.

Figure 4: Connection diagram for RolloTec cutoff relay RMD


\section*{Technical data}

RolloTec cutoff relay
\begin{tabular}{|c|c|}
\hline Rated voltage & \(230 \mathrm{~V} \sim\) \\
\hline Rated frequency & \(50 / 60 \mathrm{~Hz}\) \\
\hline Control voltage & 230 V \\
\hline Fuse & 10 A \\
\hline Circuit breaker & Characteristic A or B \\
\hline Current consumption (operation) & approx. 10 mA \\
\hline \begin{tabular}{l}
Switching current per output \\
- ohmic \\
- inductive
\end{tabular} & 8 A
3 A \\
\hline Change-over time for change of direction & min. 0.5 s \\
\hline Operating temperature & \(0 \ldots 60^{\circ} \mathrm{C}\) \\
\hline Protection class & IP20 \\
\hline \begin{tabular}{l}
Screw terminals small \\
- single wire \\
- fine-wire with conductor sleeves
\end{tabular} & \[
\begin{aligned}
& 0.5 \ldots 2.5 \mathrm{~mm}^{2} \\
& 0.5 \ldots 1.5 \mathrm{~mm}^{2}
\end{aligned}
\] \\
\hline RolloTec cutoff relay & Order no. 2930 \\
\hline Dimensions (W \(\times \mathrm{H} \times \mathrm{D}\) ) & \(50 \times 52 \times 22 \mathrm{~mm}\) \\
\hline RolloTec cutoff relay with extension circuits & Order no. 2969 \\
\hline \begin{tabular}{l}
Screw terminals large (mains and central input) \\
- single wire \\
- fine-wire with conductor sleeves
\end{tabular} & \[
\begin{array}{r}
0.5 \ldots 4 \mathrm{~mm}^{2} \\
0.5 \ldots 2.5 \mathrm{~mm}^{2}
\end{array}
\] \\
\hline Dimensions (W \(\times \mathrm{H} \times \mathrm{D}\) ) & \(53 \times 50 \times 25 \mathrm{~mm}\) \\
\hline RolloTec cutoff relay RMD & Order no. 2931, 2919 \\
\hline Dimensions ( \(\mathrm{W} \times \mathrm{H} \times \mathrm{D}\) ) & \[
\begin{array}{r}
\hline 45 \times 71 \times 42 \mathrm{~mm} \\
2.5 \text { modules }
\end{array}
\] \\
\hline Assembling height as from DIN rail (2931/2919) & 38/39 mm \\
\hline
\end{tabular}

RolloTec combinations with 9 covers for 4 inserts


\section*{RolloTec comfort insert for DC drives}

A A \(24 \mathrm{~V}=\) SELV power supply with protective isolation must be used to supply the .. RolloTec comfort insert for DC drives and to activate the extension unit inputs.


> As long as an up command \(1 \oplus\) and \(2 \odot\) is present at the extension unit input, the drive on the unit itself cannot be operated either manually or automatically. Individual control with mechanical extension unit


RolloTec standard insert without neutral conductor connection
Checking the suitability of motors with mechanical limit switches:
To replace a mechanical shutter switch/push-button with the RolloTec standard insert without a neutral conductor, first check the suitability of the motor. The RolloTec insert has no neutral conductor connection and draws its power supply from the motor. Some motors develop such a high voltage during operation that the insert could be destroyed. The check should therefore be performed with a shutter switch/push-button and not with the RolloTec standard insert without neutral conductor connection.

Measure the mains voltage (UN) and the motor voltage (UM) in up and down directions using a voltmeter. Compare the measured values for the up and down directions and the measured mains voltage using the following diagram. Locate the measured mains voltage (UN) on the left-hand axis. Connect the measured value in the diagram through the mid point \((\mathrm{M})\) to the right-hand axis (motor voltage UM) If your values measured on the motor do not exceed the maximum motor voltage given in the diagram, the motor can be used in combination with the RolloTec standard insert without neutral conductor.

Example (blue arrow):
The measured mains voltage \((\mathrm{UN})\) is 221 V . Connect the value 221 V on the left-hand axis in the diagram through the mid point \((\mathrm{M})\) to the right-hand axis with the motor voltage (UM). This gives a max. permitted motor voltage (UM) of 404 V .
\begin{tabular}{lr} 
Technical data & RolloTec standard insert without neutral conductor connection \\
Nominal voltage & 230 V ~, 50 Hz \\
Relay contacts & 2 potential carrying NOC (mutually interlocked) \\
Switching current & max. 1 motor 1000 W \\
Reversing time & min. 1 sec. \\
Circuit breaker & max. 16 A \\
Radio interference suppression & to EN 55015 \\
Terminals & Screw-type terminals for max. \(2.5 \mathrm{~mm}^{2}\) or \(2 \times 1.5 \mathrm{~mm}^{2}\) \\
Operating temperature & 5 to \(35^{\circ} \mathrm{O}\) \\
Order no.: & 2911
\end{tabular}

\begin{tabular}{lr} 
Technical data & RolloTec standard and comfort insert \\
Nominal voltage & \(230 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}, \mathrm{~N}\) conductor required \\
Switching capacity & max. 1 motor 1000 W \\
Relay output & 2 potential carrying NOC (mutually interlocked) \\
Extension unit inputs (comfort insert only) & \(230 \mathrm{~V} \sim\) (do not lay low current line) \\
Reversing time & min. 1 sec. \\
Circuit breaker & max. 16 A \\
Radio interference suppression & according to EN 55015 \\
Terminals & Screw-type terminals for max. \(2.5 \mathrm{~mm}^{2}\) or \(2 \times 1.5 \mathrm{~mm}^{2}\) \\
Operating temperature & 5 to \(35^{\circ} \mathrm{C}\) \\
Order No.: & 2925,2975
\end{tabular}

Individual control with RolloTec comfort insert and extension unit


RolloTec inserts: Master control and individual control in one phase


A 5 -wire connection between the master and individual controls is adequate even if sensor commands are sent from the master point to the individual controls. A 5 -wire connection between the master and individual controls is adequate even if sensor
The motor reverse voltage means that no motor can be connected to the master contro!!

RolloTec inserts: Master and group control in different phases


RolloTec inserts: operation at several RCDs


Sensor connection options to RolloTec inserts

\. Sensors must not be connected in


Various options are available for connecting the sensors (brightness sensor / magnetic contact / glass breakage sensor):
a) The sensor cable can be routed easily from the flush-mounted wall box through the tunnel in the RolloTec insert as far as the terminal block and securely connected.
b) The sensor cable can be fed through the cable duct between the base plate and the flush-mounted wall box and fixed to the terminal block.
c) For mounting, the sensor cable connector can be plugged into the lower sensor connection. This connection can be detached at any time in order to prevent unwanted lowering (e.g. of balcony door shutters) (not with magnetic contact).

Sun protection function: with brightness sensor order no. 0169
If the sunlight value ( 20000 Lux or programmable - see technical data) is exceeded by 2 minutes, the shutter automatically moves down until the sensor is concealed; then moves up a little until the sensor is exposed once more. If the brightness remains below the pre-set level for 15 minutes, the shutter is raised again.
The sun protection function is only activated when the shutter has been moved to its end position by a continuous run operation. To attach, clean the glass with meths or similar, and the sensor with washing up liquid. Rinse the sensor in clean water and affix it to the window glass.

\section*{Twilight function:}

The twilight function (only with timer) is activated approx. 90 minutes before sunset (see astronomical curve).
The shutter is lowered about 5 minutes after the brightness has fallen below the programmed level.


\section*{RolloTec glass breakage sensor}

The glass breakage sensor is affixed to the window pane. If the glass is broken, the shutter is automatically lowered, thereby protecting the property from the weather and from unauthorised intrusion. The shutter remains closed until an Up command is sent from the associated control mounting. Master commands are not executed, and brightness values are not processed. Attachment: clean the surface of the glass with spirit or methyl alcohol etc., and affix the sensor to the window pane with special LOCTITE adhesive (see operating instructions)

\section*{Technical data}

Contact
Switching capacity
Action radius
Contact resistance No load
Alarm condition
Alarm duration Connection cable Temperature range Index of protection Max. number Cable length \(J-Y(S T) Y 2 \times 2 \times 0.6 \mathrm{~mm}\), connect shield to ground

RolloTec brightness sensors

! Lay the sensor cable as far from


By connecting the RolloTec brightness sensors surface-mounted to the RolloTec insert the sun protection function can be implemented. If the pre-set Lux value is exceeded, the shutter is lowered such that slits of light still come through.

\section*{RolloTec glass breakage sensor}


For attaching to the window pane, we recommend the glass to metal adhesive set made by Loctite.

Lay sensor cable as far from


The glass breakage sensor can be connected in three different ways. The glass breakage sensor can be
(See sensor connection options)

\begin{tabular}{lr} 
Technical data & Magnetic contact order no. 925101/02 \\
Contact & 1pole NCC contact \\
Number of wires & 2 \\
Operating distance & to 12 mm \\
Switching voltage & Max. \(40 \mathrm{~V}=\) \\
Switching capacity & max. 10 W \\
Switching current & max. 0.5 A \\
Index of protection & IP67 \\
& \(925102 / 925101\)
\end{tabular}

\section*{Magnetic contact}


The adapter serves as an extension and to connect the connecting cables for a brightness sensor and a glass breakage sensor.

\section*{Technical data}

RolloTec adapter for sensors order no. 0171
Number of sensors on
Max 1 brightness sensor
connector
and max. 1 glass breakage sensor

\section*{Magnetic contact}

When the window is opened the shutter is closed. An up command on the associated individual control is the only way to move the shutter back up. Effective break-in protection is achieved by series connection of magnet contacts and glass breakage sensors.


RolloTec adapter for sensor


RolloTec wind speed sensor interface


RolloTec comfort insert with RolloTec wind speed sensor interface and wind speed sensor


Settings for the RolloTec wind speed sensor interface
Sensor switch for type setting:
= Berker / order no.:0172 (obsolete type)
\(2=\) Berker / order no::0172 01 and
Thies / order no.:4.3515.50.000 (heated)
The rotary switch sets the limit value:
Position of
rotary switch wind speed

\begin{tabular}{|c|c|c|}
\hline & &  \\
\hline 3 & & 3 Bft - approx. \(3.3 \mathrm{~m} / \mathrm{s}-12 \mathrm{~km} / \mathrm{h}\) \\
\hline 4 & & 4 Bft - approx. \(5.5 \mathrm{~m} / \mathrm{s}-20 \mathrm{~km} / \mathrm{h}\) \\
\hline 5 & & 5 Bft - approx. \(8.0 \mathrm{~m} / \mathrm{s}-29 \mathrm{~km} / \mathrm{h}\) \\
\hline 6 & & 6 Bft - approx. \(11.0 \mathrm{~m} / \mathrm{s}-40 \mathrm{~km} / \mathrm{h}\) \\
\hline 7 & & 7 Bft - approx. \(14.1 \mathrm{~m} / \mathrm{s}-51 \mathrm{~km} / \mathrm{h}\) \\
\hline 8 & & 8 Bft - approx. \(17.2 \mathrm{~m} / \mathrm{s}-62 \mathrm{~km} / \mathrm{h}\) \\
\hline 9 & & 9 Bft - approx. \(20.8 \mathrm{~m} / \mathrm{s}-75 \mathrm{~km} / \mathrm{h}\) \\
\hline \[
0
\] & & 10 Bft - approx. \(24.5 \mathrm{~m} / \mathrm{s}-88 \mathrm{~km} / \mathrm{h}\) \\
\hline
\end{tabular}

Select rotary switch position 1 or 2 (test), start the wind sensor in rotation, the LED will flash. After 15 seconds continuous rotation (e.g. with a hair dryer) the contact will close.
1. - Do not mount the install RolloTec wind sensor in wind shadow.

Ensure correct attachment position
The wind controller is weather-resistant and can be exposed
to constant direct sunlight.
The wind alarm has the top priority, i.e. the shutter is always
aised and locked in the event of a wind alarm until the wind has dropped for at least 15 minutes.

Response time: Shutter is raised after 15 sec . above set value.

RolloTec comfort insert with RolloTec precipitation sensor


With mounting angle for \(70^{\circ}\) tilted mounting.

By connecting a precipitation sensor to extension unit input \(2, \boldsymbol{\Delta}\) in the event of precipitation the shutter (or awning or suchlike) is retracted and locked shut until the precipitation stops (after approx. 2 minutes the moisture on the heated precipitation sensor has evaporated and it is unlocked).

RolloTec comfort insert with room thermostat


By connecting a room thermostat with changeover contact to the extension unit inputs, the shutter is raised or lowered depending on the temperature (e.g. in a winter garden). Use only extension unit input \(1 \mathbf{\nabla}\) or \(2 \mathbf{\Delta}\) as desired.

RolloTec in combination with key switch for shutters and controller / controller system


The key switch (key switch for shutters 2pole) activates the controller / controller system, causing the shutters to be closed in the event of any unauthorised approach to the building. On arrival of the occupants, the shutters are raised by operating the key switch. A RolloTec timer can be used as a master control, automatically raising the shutters every morning while the occupants are away.


\section*{Awning control with RolloTec wind/brightness and precipitation sensor}

\section*{Function: When the pre-set brightness is exceeded} the shutter is lowered. in the event of precipitation and/or excessive wind, the shutter is retracted and locked until Priority: \(\quad\) Wind and rain before manual and brightness sensor command.


\section*{RolloTec memory button}

The memory button contains two functions: Push-button mode and automatic memory mode. Simply pressing the push-button (up/down) raises or lowers the shutter.
An up and/or down command can be taught-in and updated at any time by new ones. These commands are then executed automatically at the same time every day in memory mode.
When a manual action is performed in memory mode a short beep sounds indicating the set mode. (For settings see adjacent diagram)
\begin{tabular}{lr} 
Technical data & RolloTec memory button \\
Switching times & max. \(2(1\) up and 1 down time) \\
Connection & Plug into RolloTec insert \\
Order No.: & \(1756 . ., 1757 .\). (with sensor connection)
\end{tabular}


\section*{RolloTec Easy timer}

The RolloTec Easy timer can be viewed as a simple individual or master control for roller blinds, shutters or awnings. The timer can be programmed for one up time and one down time, for Monday to Friday and Saturday to Sunday respectively. The Easy timer can be programmed for a period of 6 hours after removal from the RolloTec insert. Manual operation is possible at any time, of course.

The Easy timer does not process any extension and sensor signals or master commands.
The RolloTec Easy timer comprises two modes:
Automatic: The programmed up/down time is executed automatically. Manual: In this mode, the up/down time is ignored and operation is only possible manually using the up/down buttons.


\section*{Product details of the RolloTec timer comfort}
- Operation via 4-button control pad
- Display the next time of movement with all active functions and the current time
- 3 programme memories \(\bar{A}, ~ B\) and \(C\) for up to 18 times of movement
- Factory pre-set programmed times of movement in 2 programme memories ( \(\mathrm{A}, \mathrm{B}\) )
- Random function (programmed times of movement are displaced by up to \(\pm 15\) minutes)
- Astronomical function (enables an automatic upwards movement of the shutter at daybreak and downwards movement at nightfall
- Adjusting the astronomical function by shifting the astronomical time \(\pm\) hours.
- Random and astro functions can be combined
- Automatic summer / winter time changeover (can be switched off)
- Individual motor running time adjustable 1 sec . to 6 min .
- Blade positioning time adjustable 0.1 to 5 sec.
- Evaluation of extension units the down direction can be switched off (protection against being locked out)
- Power reserve approx. 4 hrs.
- Programmed times of movement saved in non-volatile memory. Date and time remain saved for about 4 hours maintenance-free due to use of special capacitor.
- Wind alarm connected via extension unit (only with the RolloTec insert with extension unit function)
- Additional product details of the RolloTec timer comfort with sensor connection
- Sunlight protection function (evaluates external and internal sensors)
- Separate running time adjustment when using external sensor
- Twilight function (twilight-related lowering of shutters in connection with brightness sensors, dawn-related raising of shutters only in connection with surface-mounted brightness sensor). Glass breakage function

When a glass breakage sensor or combination of glass breakage sensor and sun sensor is fitted, a reduction When a glass breakage sensor or combin "

If a time of movement of 00:00 is set during programming, it is not executed. This means, for example, that by programming 7:00 \(\mathbf{\Delta}\) and 00:00 \(\mathbf{\nabla}\), the shutter is only raised in the morning. The shutter must then be lowered manually in the evening.

Quick programming permits the up and/or down times to be entered speedily and efficiently. This makes programming the switching times even easier.
Press and hold down button \(\mathbf{\Delta}\) and Prog simultaneously. The current time is stored as the up time for the current part of the week (Mo-Fr or \(\mathrm{Sa}+\mathrm{Su}\), whichever is the case). If the button \(\mathbf{\nabla}\) and the Prog. button are pressed simultaneously, the same is set for the down time.


RolloTec timer comfort display

\begin{tabular}{lr} 
Technical data & RolloTec timer \\
Reversing time & min. 1 sec. \\
Accuracy & \(\pm 1\) min. per month \\
Power reserve & approx. 4 hrs. (no battery required) \\
Switching times & max. 18 (in 3 programme memories) \\
Random generator & \(\pm 15\) minutes \\
Astro programme & Adjustable by \(\pm 2\) hrs. \\
Running time programmable & 1 sec. to 6 min. (default 2 min.\()\) \\
Connection & Plug into RolloTec insert \\
Operating temperature & 0 to \(45^{\circ} \mathrm{C}\) \\
Order No.: & \\
& \\
\hline
\end{tabular}

Astronomic curve for RolloTec timer with adjustment for summer and winter time


Programming the RolloTec timer comfort


Motion detector \(90^{\circ}\) wired to alarm centre


The wired alarm centre permits the setup of a low-cost alarm system using only wired components, e.g. to protect apartments or smaller properties.
\begin{tabular}{|c|c|}
\hline Technical data & Alarm system wired \\
\hline Operating voltage & 230 V , 50 Hz or \(12 \mathrm{~V}=\) \\
\hline Current input & \(10 \mathrm{~mA} \sim\) or \(70 \mathrm{~mA}=\) \\
\hline Emergency power supply & possible with Li battery pack: \(14.4 \mathrm{~V}=\), order no.: 921401 \\
\hline Output voltage for external devices & \(12 \mathrm{~V}=\) \\
\hline Fuse for outputs flashing light and siren & T 1.25 A L \\
\hline Loading capacity of the 12 V outputs & max. 1 A \\
\hline Load capacity of alarm, status outputs & max. 10 mA \\
\hline Buzzer volume & 85 dBA at distance of 0.1 m \\
\hline Pulse length for inputs & min .0 .4 sec . \\
\hline Input switching & Closed < 4 kOhm Open > 100 kOhm \\
\hline Siren duration & 0 to 180 sec., adjustable \\
\hline Arm/alarm delay & 0 to 60 sec., adjustable \\
\hline Operating temperature & 0 to \(50{ }^{\circ} \mathrm{C}\) \\
\hline Index of protection & IP20 \\
\hline Dimensions ( \(\mathrm{W} \times \mathrm{H} \times \mathrm{D}\) ) & \(165 \times 215 \times 48 \mathrm{~mm}\) \\
\hline Order no.: & 9020 \\
\hline
\end{tabular}

AC 230 V ~


Wired alarm centre
\begin{tabular}{|c|c|c|c|c|}
\hline \multirow[t]{9}{*}{} & Q GND & \multirow[t]{3}{*}{\[
\begin{array}{r}
\text { GND } \\
\text { GND } \\
+12 \mathrm{~V}
\end{array}
\]} & F1 = & \\
\hline & - GND & & & \\
\hline & ( \(\begin{aligned} & \text { not } \\ & \text { armed }\end{aligned}\) & & Ext & \\
\hline & Q Armed & \[
+12 \mathrm{~V}
\] & & \\
\hline & \& L4, Sabo & Status & & \\
\hline & - L3, 24 h & Siren & & \\
\hline & - L2, internal & Flash & & \\
\hline & \& L1, externa & Siren - & & AC \(230 \mathrm{~V} \sim\) \\
\hline & K2 & & & \(\theta\) Q \\
\hline
\end{tabular}
!. Max. 5 motion detectors \(90^{\circ}\) with a total cable length of max. 100 m


Potential-free alarm contact and sabotage contact with 4 -stage sensitivity to enhance functional safety.

For individual connection wiring see continuous line
For multiple connections open up at point | and wire (see dotted line).
- Burglar alarm systems are used to signal attempts to break in as early as possible. They supplement mechanical security measures.

All property protection is based on mechanical security measures such as strong doors and windows, additional bolts etc., which provide the greatest possible resistance against burglars.
- Burglar alarm systems should be installed in such a way that they detect and signal the attempts to break in, e.g. damage to doors and windows, as quickly as possible.
The control centre must be housed in a specially secured location.
- Burglar alarm systems must be installed in such a way that no false alarms are possible:
- Every false alarm weakens a security system as it loses credibility.
- False alarms can result in call-out costs.
- Measures for prevention of false alarms:
- Positive operation when armed, with alarm delay time: The alarm delay time means that, upon entering the property, you have time (adjustable between 0 and 60 seconds) to disarm the alarm centre before the alarm is triggered.
- Selecting the position of motion detectors: Motion detectors should not be directed towards heating or air-conditioning equipment, fax machines, automatic lights, windows or areas with strong air movement. Temperature differences in these areas can trigger an alarm.
- Passive glass breakage detectors on single glazing (these detectors are triggered when a coin is tapped against the window)
- All alarm system components accessible from outside must be protected against sabotage.
- Alarm sensors should be installed so as to be clearly visible but out of reach.
- Switching devices should be electronically protected against sabotage.

Key switch magnetic contacts and glass breakage sensors at wired alarm centre


Relay for RolloTec and/or panic lighting at alarm centre


Smoke detector with relay module at alarm centre


Recommended cable types for connection of wired components to wired alarm centre


\section*{Smoke detectors}

\section*{RM. 1 smoke detector [0191 09]}

\section*{Function}

How optical smoke detectors work


Figure 1: Smoke detectors in normal status


Figure 2: Smoke detector at smoke entry
In normal status, the opto transmitter emits light beams into the measuring chamber.
If smoke enters the measuring chamber, the light beams are scattered by the suspended particles of smoke and deflected to the photoreceiver. The smoke thus detected triggers the alarm. When the measuring chamber is once again free of smoke, the alarm is reset.

\section*{Product characteristics}

The RM. 1 smoke detector has been designed as a domestic smoke detector, for use in self-contained living areas such as flats and single family houses as well as on boats or in caravans/mobile homes.
- Works according to the scattered light principle (Tyndall effect).
- Detection of the slightest smoke emission e.g. when smouldering or open fires first start.
- Loud integrated Piezo siren
- smoke build-up is measured and the automatic self-test function executed in a 40-second cycle
- manual test at any time by means of light guide rod test button with LED display
- manual mute of the alarm by means of light guide rod test button
- 24-hours alarm memory for indicating a triggered smoke alarm on the detector in question
- operation by means of 9 V power pack battery (supplied)
- battery power loss is signalled for at least 30 days by a recurring beep every 40 seconds and a flashing LED.

\section*{Optional functional expansion}

Modules that can be inserted in the smoke detector are available for expanding functions
- Relay module (Order No.: 0191 51)
- Radio networking module (Order No.: 0191 50)


Figure 3: Modules for functional expansion of the RM. 1

\section*{Planning examples}


Figure 4: Minimum and optimal protection of houses and flats Minimum protection by means of RM.1:
- in front of / in bedrooms for waking in case of smoke alarm
- in the hallway of each floor

Optimal protection by means of RM.1:
- Protection of the entire living area by means of several wireless networked smoke detectors
- The mounting distance e.g. in long hallways should not be longer than 8 m between two smoke detectors.

When smoke is detected, the RM. 1 smoke detector that detects the smoke triggers the alarm signal on all other smoke detectors. This means that you will be woken up by a networked smoke detector in your bedroom at night if another smoke detector detects smoke.

\section*{Installation}

\section*{Installation location}
- on the ceiling
- in or as near as possible to the centre of the room
- Within acoustic range of all occupants

\section*{Unsuitable installation locations}

Installation locations listed in the following can lead to false alarms or malfunctions of the smoke detector.
- rooms with high levels of steam, dust or smoke, such as kitchen, bathroom, garage, workshop or stables
- close to fireplaces and open chimneys
- in places where draughts may keep smoke away from the smoke detector, e.g. close to windows / ventilation flues
- close to fluorescent / energy saving lamps whose electric fields can trigger false alarms (minimum distance 50 cm )
- Corners (e.g. corners of rooms / roof gables) or near walls. In case of fire, smoke-free air can accumulate there and prevent the smoke from being detected. (minimum distance to walls / corners 50 cm )
- in rooms with a height exceeding 6 m
- rooms with temperatures below \(-10^{\circ} \mathrm{C}\) or above \(+60^{\circ} \mathrm{C}\)

\section*{Specification}
\begin{tabular}{lr}
\hline RM. 1 smoke detector & Order no. 019109 \\
\hline Operating voltage & Power pack battery \(9 \mathrm{~V}=\) \\
\hline Signal tone at a distance of 3 m & Piezo, \(>85 \mathrm{~dB}(\mathrm{~A})\) \\
\begin{tabular}{l} 
Monitoring area \\
(installation height max. 6 m )
\end{tabular} & max. \(60 \mathrm{~m}^{2}\) \\
Operating temperature & \(-10 \ldots 60^{\circ} \mathrm{C}\) \\
Recommended usage period & max. 10 years \\
Protection class & \(\mathrm{IP43}\) \\
VdS approval & G 203023 \\
\hline Dimensions with socket \((\varnothing \times \mathrm{H})\) & \(100 \times 51 \mathrm{~mm}\)
\end{tabular}

\section*{Relay module [0191 51]}

\section*{Function}

The relay module is inserted into the RM. 1 smoke detector with connection pins. It is used
- for connection of external signal generators
- for connection to the KNX
- for activation of radio bus and Rollotec components

\section*{Connection of external signal generators}


Figure 5: Wiring of external signal generators
1 Ensure correct polarity (Illustration 5)! Connect external signal generators to NO contact terminal of the changeover contact.
- External signal generators such as sirens, warning lights etc. must have their own separate power supplies.

\section*{Connection to KNX}

The relay module can be used to connect the smoke detector to the bus via KNX universal 2, 4 and 8gang interfaces.
To connect the smoke detector to the interfaces, the relay module is connected on the input terminal of the universal interface (Illustration 2).

The maximum cable length between the universal interface and the smoke detector is 10 m .


Figure 6: Connection of smoke detectors to the KNX via universal interface 8gang comfort

Specification
\begin{tabular}{lr}
\hline Relay module & Order no. 019151 \\
\hline Operating voltage & via power pack battery \(9 \mathrm{~V}=\) \\
Contact type & max. \(30 \mathrm{~V}=\) \\
Switching voltage & max. 2 A \\
Switching current (ohmic) & max. 60 W \\
Switching capacity & \(-10 \ldots 60^{\circ} \mathrm{C}\) \\
Operating temperature & IP 43 \\
Protection class (mounted in & \\
RM. 1\()\) & \(54 \times 22 \times 5 \mathrm{~mm}\) \\
Dimensions & \\
\((L \times W \times H\), without contact pins) & \\
\hline
\end{tabular}

\section*{Radio networking module [0191 50]}

Increased current consumption for operating the smoke detector with radio networking modules. The operating time with conventional batteries is reduced. Only use the 9 V lithium battery pack supplied with the radio networking module or an equivalent lithium battery.
1. Impaired transmission and receiving range when using the radio networking module close to metal items. Networking is not permanently available. Do not install smoke detector with radio networking module close to metal items.

\section*{Function}

The radio networking module allows the wireless networking of the smoke detectors to so-called signalling groups. If a device detects smoke in a networked group, it triggers an alarm. This alarm is also triggered by the other smoke detectors of the .signalling group. Fault messages and low battery signals are also transmitted within a signalling group. The four slide switches allow up to 8 signalling groups and one repeater function to be set up when the radio networking module is integrated.

\section*{Planning example}

\section*{Radio-controlled networking}

The flat on the 1st floor and top floor is protected by smoke detectors in signalling group 1. The other flat with ground floor, cellar and extension (dark grey walls) is covered independently by detectors from signalling group 2, with the RM. 1 in the entrance hall set as an amplifier using the slide switch on the module.


Bild 7: Radio-controlled networking of a double family house.
Specification
\begin{tabular}{lr}
\hline Radio networking module & Order no. 019150 \\
\hline Operating voltage & via the RM.1, \\
\hline Current consumption in transmission mode & approx. 40 mA \\
Transmission power ERP & max. 20 mW \\
\hline Transmission frequency & 868 MHz \\
Channel bandwidth (interference immunity) & \(\pm 64 \mathrm{kHz}\) \\
Signalling groups (using slide switches) & 8 \\
R\&TTE approval & EU and EFTA states \\
Range (free field) & approx. 200 m \\
Operating temperature & \(-10 \ldots 60^{\circ} \mathrm{C}\) \\
Protection class (mounted in RM.1) & \(\mathrm{IP43}\) \\
\begin{tabular}{l} 
Dimensions (L \(\times \mathrm{W} \times \mathrm{H}\), without contact pins \\
and aerial)
\end{tabular} & \(54 \times 22 \times 5 \mathrm{~mm}\) \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|}
\hline  & \begin{tabular}{l}
9420.. \\
Radio controller 180 flat
\end{tabular} & \begin{tabular}{l}
01740109 \\
Radio controller 180
\end{tabular} & \begin{tabular}{l}
| 018209 \\
Radio presence detector surface-mounted
\end{tabular} \\
\hline \begin{tabular}{l}
1760.. \\
BLC radio button
\end{tabular} & \begin{tabular}{l}
When switch in use, switch on at brightness approx. 1-80/ \(\infty\) Lux programmable, with delay time 1 minute, retriggering \\
- When dimmer in use, switch on saved memory value at brightness approx. \(1-80 / \infty\) Lux programmable, with delay time 1 minute, retriggering
\end{tabular} & \begin{tabular}{l}
When switch in use, switch on at brightness < 80 Lux, with 1 minute delay time, retriggering \\
For dimmer inserts: switch to saved memory value when brightness \(<80\) Lux, with 1 minute delay time, retriggering
\end{tabular} & \begin{tabular}{l}
Only for BLC radio buttons with imprint R2 or higher \\
Switching On/Off depending on brightness and movement, switch-on time and required brightness value programmabler \\
With BLC dimmer inserts constant light control
\end{tabular} \\
\hline  & ■ Switch on saved memory value at brightness approx. 1-80/ \(\infty\) Lux programmable, with delay time 1 minute, retriggering & - Switch to saved memory value when brightness < 80 Lux, with 1 minute delay time retriggering & \begin{tabular}{l}
Only for radio universal dimmers with imprint R2 (or higher) and RMD \\
Switching On/Off depending on brightness and movement, switch-on time and required brightness value programmabler \\
Constant light control
\end{tabular} \\
\hline \begin{tabular}{l}
0180 / 94650100 \\
Radio control units 1-10 V
\end{tabular} & ■ Switch on saved memory value at brightness approx. 1-80/ \(\infty\) Lux programmable, with delay time 1 minute, retriggering & - Switch to saved memory value when brightness < 80 Lux, with 1 minute delay time retriggering & \begin{tabular}{l}
Only for radio control units with imprint R2 or higher (except RMD) \\
Switching On/Off depending on brightness and movement, switch-on time and required brightness value programmabler \\
Constant light control
\end{tabular} \\
\hline  & ■ Switch on at brightness approx. 1-80/ \(\infty\) Lux programmable, with delay time 1 minute, retriggering & Switch on at brightness < 80 Lux, with 1 minute delay time, retriggering & \begin{tabular}{l}
Only for radio switch actuator with imprint R2 or higher (except RMD) \\
- Switch on/off depending on brightness and movement, switch-on time and required brightness value programmable
\end{tabular} \\
\hline \begin{tabular}{l}
\[
017950 \text { / } 012550
\] \\
Radio push-button actuators
\end{tabular} & Impulse with adjustable brightness approx. 1-80 Lux, not after-triggering & \begin{tabular}{l}
■ Impulse with adjustable brightness approx. \\
\(1-80 / \infty\) Lux, not after-triggering
\end{tabular} &  \\
\hline \[
017509
\] & - Switch on at brightness approx. 3-80 Lux programmable, with programmable delay time 10 sec. - 15 min. retriggering & Switch on at brightness approx. 3-80 Lux programmable, with programmable delay time 10 sec. - 15 min . retriggering & \begin{tabular}{l}
Only for radio controller power pack with imprint R2 or higher \\
- Switch on at brightness < 3-80 Lux programmable, with programmable delay time 10 sec . - 15 min. retriggering
\end{tabular} \\
\hline Radio controller power pack surface-mounted & & & \\
\hline \begin{tabular}{l}
1758.. / 1759.. / 0127 / 94600100 \\
RolloTec radio button Radio shutter actuator flush-mounted and RMD
\end{tabular} &  &  &  \\
\hline
\end{tabular}


\section*{Free field definition}


In every property in which the Radio Bus is to be installed there are favourable and unfavourable locations for the installation of appliances. In borderline cases the selection of the installation location can be decisive in determining the proper functioning of a radio link. Consequently, the following criteria should be taken into account in planning and installation:

Penetration of radio signals Material
Wood, plaster, unlaminated glass
Brick, pressboard panels
Reinforced concrete
Metal, metal grilles, aluminium laminations Rain, snow


Penetration approx. 90 \% approx. 70 \% approx. 30 \% approx. 10 \% approx. 0-40 \%
- The link between the transmitter and the receiver should be chosen such that it runs for as short a distance as possible through masonry or other attenuating materials. Wall niches, in particular, should be avoided.

- The mounting height of transmitters and receivers should not be below 50 cm .
- The distance between transmitters and receivers should be at least 1 m and at least 10 cm between receivers.
- As far as possible all transmitter and receiver aerials should be aligned vertically or horizontally.
- Do not shorten, extend or strip the aerials as they are precisely co-ordinated to the wavelength of the signal frequency.
- A minimum distance of 3 m should be maintained to radio components of other function groups, e.g. radio headphones or radio telephones.
- Computers, audio/video systems, microwaves or electronic transformers and ballasts are high-frequency interference sources. Maintain a minimum distance of 50 cm to these units wherever possible.
- Transmitters or receivers which handle centralised tasks building-wide (e.g. ALL OFF or central shutter control) should also be placed at a central location whenever possible. Unfavourable links running diagonally through the entire building should be avoided.
- If reception is irregular, it is often sufficient to move the transmitter or receiver by just a few centimetres. This reception interference often occurs due to partitioning obliteration or reflection of the radio signal, as is familiar from car radios and mobile phones for example.

■ The distance to large metal surfaces, e.g. metal doors and frames, aluminium blinds or metal cupboards should be as large as possible (several decimetres).


■ Do not install transmitters and receivers behind metallic or conductive surfaces, e.g. anti-static floor, insulation with metal laminating, cable lines, metal louvered ceilings, panels containing carbon fibres, hot water heaters, electric underfloor heating systems etc.
Remedy: If possible lead the aerial through the material.
- Windows with heat insulating glass based on metal insulation severely attenuate or reflect radio signals.
■ Damp in ceiling and walls, or snow in outdoor areas, severely attenuates or reflects radio signals.
- Radio reception can be checked at any time prior to installation using a transmitter and a receiver. The state of completion of the building should be taken into account, e.g. dryness of plaster and floor paving or presence of doors and cladding.
- To prevent superimposition of telegrams, radio actuators may not be used to actuate any other radio transmitters.
- Radio telegrams within a "radio zone" should only be repeated using a radio signal amplifier as otherwise telegram superimposition can occur.
The signal amplifier should be a minimum distance of 1 m from transmitters and receivers to prevent overloads.
- No more than 8 radio presence detectors should be used within a "radio zone". If there is constant presence in the detection range, the telegram frequency could result in telegram superimposition in the radio channel.
- The radio presence detector may only be operated with alkaline batteries, as they are the only ones with sufficient pulse current carrying capacity
- The connecting cables for the radio push-button interface may only by extended to a maximum of 5 m using twisted pair cables with a cross-section of approx. \(0.2 \mathrm{~mm}^{2}\) per channel.

\section*{Radio signal amplifier}

If a link is subject to a high degree of attenuation, or if the 100 metre radio range is insufficient, rendering transmission of the radio signals impossible, a radio signal amplifier can be installed at around half range as a repeater. It can amplify up to 60 transmission channels. All radio telegrams of the Radio Bus system are understood, but only the taught-in ones are amplified. Cascading of radio signal amplifiers is not possible. That is to say, radio signal amplifiers do not amplify radio telegrams from other radio signal amplifiers.

\begin{tabular}{lr} 
Technical data & Radio signal amplifier order no. 017709 \\
Power supply unit & \(230 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}\) \\
Standby power consumption & approx. 1.10 W \\
Transmission frequency & 433.42 MHz , (ASK) \\
Transmission range & max. 100 m (free field) \\
Transmission power & \(<10 \mathrm{~mW}\) \\
R\&TTE approval (for EU and EFTA states) & Yes \\
Radio codes (assigned once per channel) & \(>1\) billion \\
Number of radio codes (channels) to amplify & 60 \\
Radio interference suppression & according to EN 55015 \\
Operating temperature & -20 to \(55^{\circ} \mathrm{C}\) \\
Index of protection & IP20 \\
Terminals & \\
Dimensions (L×W×H) & Screw-type terminals for max. \(2.5 \mathrm{~mm}^{2}\) or \(2 \times 1.5 \mathrm{~mm}^{2}\) \\
& \(110 \times 38 \times 94 \mathrm{~mm}^{2}\)
\end{tabular}

\section*{Radio Bus control centre HM 1801}

The unit is used as a radio control centre for all Radio Bus transmitters and actuators (except radio controller power pack and EIB radio receiver). The HM 1801 expands the radio installation, e.g. to include timer controlled and automated functions for lighting and shutter/awning control.
Radio Bus components can be actuated and linked. Data backup and any software updates are carried out using chip cards - additional connections permit future functions to be added.

\section*{Functions}
- Commissioning assistant
- Menu-driven operation with function keys
- Save and retrieve the last status by using the coming in / going out function.
- Easy operation and short messages via text-based illuminated display
- Accurate time controls with integrated radio clock (DCF77)
- Indication of time and room temperature
- Integrated Piezo buzzer with adjustable volume
- Key lock similar to mobile phone
- Save and load configurations/programmes using chip card
- Integrated radio signal amplifier function
- Transmitters and receivers can be taught in battery mode
- Emergency power supply
- Master functions such as ALL ON and ALL OFF (panic button)
- Switch and call up dimmer values
- Rapid selection of light scenes using number keys
- Easy configuration thanks to pre-set texts
- Teaching-in and testing of Radio Bus transmitters
- Battery low display for Radio Bus transmitters
- Lock and unlock radio control sections by time or radio transmitter
- Random time control, e.g. to simulate presence in building
- Time control for shutters with running time setting
- Time-dependent controller monitoring
- Configuration lock for reprogramming using PIN

\section*{Ranges / mounting location}
\Always follow the Radio Bus planning instructions!
The range always depends on the local conditions. When choosing the mounting location, ensure that the display can be read without glare and that there is a DCF77 reception.


Radio switch actuator flush-mounted

Technical data
\begin{tabular}{lr} 
Power supply unit & \(230 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}\) \\
Emergency power supply (batteries) & \(5 \times\) Micro Alkaline (LR 03) \\
Battery life & approx. 6 hours in continuous operation without the mains \\
Symbol flashing battery in display & Change batteries \\
Transmission frequency & 433.42 MHz , (ASK) \\
Transmission range & max. 100 m (free field) \\
Transmission power & \(<10 \mathrm{~mW}\) \\
R\&TTE approval (for EU and EFTA countries) & Yes \\
Number of channels & 32 transmitters / 32 receivers \\
System radio codes & \(>1\) billion \\
Signal amplifier & Integrated, max. 100 m, not cascadable \\
Mains cable & H 03V V-F, \(2 \times 0.75\)
\end{tabular}


\section*{Display (initial display)}


\section*{Example of use: time-dependent controller monitoring}

The garden lighting is to be operated by the controller after a particular time:
Using the menu system in the display, specify a time as a condition in the HM 1801 linking function. In addition, set the delay time for the actuator.



Radio switch actuator flush-mounted


Radio controller 180
\begin{tabular}{|c|c|}
\hline & Radio Bus control centre HM 1801 order no. 2700 \\
\hline Controls & 4 function keys, master button, 12 number keys \\
\hline Display & LC, 7 lines \(\times 20\) characters, illuminated \\
\hline Radio clock & DCF 77 \\
\hline Buzzer & Piezo, \(\geq 65 \mathrm{~dB}(\mathrm{~A})\) \\
\hline Interfaces & Chip card reader RJ45 socket \\
\hline Radio interference suppression & according to EN 55015 \\
\hline Operating temperature & 4 to \(40^{\circ} \mathrm{C}\) \\
\hline Index of protection & IP20 \\
\hline Dimensions ( \(\mathrm{L} \times \mathrm{W} \times \mathrm{H}\) ) & \(230 \times 140 \times 50 \mathrm{~mm}\) \\
\hline \multicolumn{2}{|l|}{Additional HM1801 master card} \\
\hline Order No.: & 270001 \\
\hline
\end{tabular}

\section*{Mini hand-held radio transmitter}

The Mini hand-held radio transmitter permits cordless remote control. When a key is pressed, an encrypted radio telegram is sent, which is understood by all the radio receivers in the Radio Bus system.

2 channels can be used for on/off, brighter/darker or up/down commands

\begin{tabular}{lr} 
Technical data & Mini hand-held radio transmitter order no. 2769 \\
\hline Power supply unit & \(3 \mathrm{~V}=\) \\
Batteries & \(1 \times\) lithium coin cell (type CR20 32) \\
Battery life & approx. 3 years \\
Transmission frequency & 433.42 MHz , (ASK) \\
Transmission range & max. \(30 \mathrm{~m} \mathrm{(free} \mathrm{field)}\) \\
Transmission power & \(<10 \mathrm{~mW}\) \\
R\&TTE approval (for EU and EFTA states) & Yes \\
Number of channels & 2 \\
Radio codes (assigned once per channel) & \(>1\) billion \\
Operating temperature & 0 to \(55^{\circ} \mathrm{C}\) \\
Dimensions (L×W \(\times \mathrm{H})\) & \(73 \times 40 \times 19 \mathrm{~mm}\)
\end{tabular}

\section*{Radio hand-held transmitters comfort}

Radio hand-held transmitters permit cordless remote control. When a key is pressed, an encrypted radio telegram is sent which is understood and evaluated by all the radio receivers in the Radio Bus system.

Three groups (A, B, C) are available, each with 8 channels ( \(1, \ldots, 8\) ), meaning 24 radio channels can be used for on/off, lighter/darker or up/down commands.

Touch functions are called up for on/off, brighter/darker or up/down commands or special functions "All Off" or "Light Scene".

With the radio hand-held transmitter comfort, 5 light scenes can be stored and retrieved.

A light scene may be composed of:
fixed dimming value for lighting (approx. \(10 \%\) to \(100 \%\) brightness), and/or
fixed switching state of a load (e.g. fan, light on/off),
and/or
fixed end position of a shutter (shutter up / down).
When using BLC dimmer inserts with BLC radio buttons, radio dimmers built-in or radio button control unit 1-10 V , the master dimming push-button is used to make an entire light scene lighter/darker or switch it off.

\section*{Radio wall transmitter flat}

The flat radio wall transmitter flat permits cordless, permanently installed remote control in electrical installations.

When a key is pressed, the flat transmitter sends an encrypted radio telegram, which is understood and evaluated by all the radio receivers in the Radio Bus system.

The keys can operate in pairs as rockers (for on/off, brighter/darker or up/down commands) or activate special "All Off" or "Light Scene" functions.

The Radio wall transmitter flat is fitted with a 4gang function switch "S", which is used to select the push-button function and to save the light scenes (see illustration).

The Radio wall transmitter flat can be screwed or stuck to a flat base (wood, plaster, glass, mirror etc.) as well as to appliance sockets with a frame.
When fitting on glass, adhesive foil order no. \(9498 \mathrm{xx} x \mathrm{x}\) can be fitted to the backside as a sight screen.
\begin{tabular}{lr} 
Technical data & Radio wall transmitter flat order no. 2721.., 2722.., 2724.. \\
Power supply unit & \(3 \mathrm{~V}=\) \\
Battery & \(1 \times\) lithium coin cell (type CR20 32) \\
Battery life & approx. 3 years \\
Repeated flashing of all LEDs when transmitting & battery flat, replace \\
Transmission frequency & 433.42 MHz (ASK) \\
Transmission range & max. 100 m (free field) \\
Transmission power & \(<10 \mathrm{~mW}\) \\
R\&TTE approval (for EU and EFTA states) & Yes \\
Number of channels & \(1,2,3\) or 4 depending on the type \\
Radio codes (assigned once per channel) & \(>1\) billion \\
Light scenes & 1,3 or 5 depending on setting and type \\
Operating temperature & 0 to \(55^{\circ} \mathrm{C}\) \\
Index of protection & IP 20
\end{tabular}

\section*{Radio transmitter insert wall-mounted}

The Radio transmitter insert wall-mounted permits cordless but permanently installed remote control in electrical installations. It can be operated in combination with KNX/EIB push-buttons (1, 2 or 4gang) of the S.1, MODUL 2, B.1, B.3, B. 7 Glas, K.1, K.5, ARSYS ranges.

When a key is pressed, the Radio transmitter wall-mounted sends an encrypted radio telegram, which is understood and evaluated by all the radio receivers in the Radio Bus system.

The keys can operate in pairs as rockers (for on/off, brighter/darker or up/down commands) or activate special "All Off" or "Light Scene" functions.

The Radio transmitter wall-mounted is fitted with a 4gang function switch "S", which is used to select the push-button function (see illustration).

The Radio transmitter wall-mounted can be installed in flush-mounted wall boxes, cavity wall sockets or flat surface-mounted housings with frames.

To achieve the maximum transmission range, the aerial should be exposed and fully stretched out, and be as far as possible from the wall-mounted radio transmitter.


Technical data Radio hand-held transmitter comfort order no. 2766
Power supply unit
\(4 \times\) V \(=\)
Battery
\(6 \mathrm{~V}=\)
Battery life
Repeated flashing of all LEDs when transmitting batteries flat, replace
Transmission frequency \(\quad 433.42 \mathrm{MHz}\), (ASK)
Transmission range max. 100 m (free field)
Transmission power
\(<10 \mathrm{~mW}\)
R\&TTE approval (for EU and EFTA states)
24 in 3 groups A, B, C
Radio codes (assigned once per channel) 24 in 3 groups A, B, C
Light scenes \(>1\) billion

Operating temperature
0 to \(55^{\circ} \mathrm{C}\)
Dimensions ( \(\mathrm{L} \times \mathrm{W} \times \mathrm{H}\) )
\(192 \times 53 \times 23 \mathrm{~mm}\)


\section*{Radio transmitter insert wall-mounted}

Flush-mounted installation
depth 12 mm



In flat surface
In flat surface mounted frame

The Radio Bus planning ! instructions must be followed.


Technical data
Radio wall transmitter insert order no. 2764 Power supply unit Batteries
Battery life \(2 \times\) lithium coin cells (type:CR2032) approx. 3 years
Repeated flashing of all LEDs when transmitting batteries flat, replace

Transmission frequency 433.42 MHz , (ASK)

Transmission range max. 100 m (free field)
Transmission power max. \(<10 \mathrm{~mW}\)
R\&TTE approval (for EU and EFTA states)
\(<10 \mathrm{~mW}\)
R\&TTE approval (for EU and EFTA states)
Number of channels
Namber of channels
, 2, 3 or 4 depending on push-button
Radio codes (assigned on
5 according to setting
Operating temperature
Operating temperat
Index of protection
to \(55^{\circ} \mathrm{C}\)
Insertion depth
12.3 mm

\section*{Radio transmitter with phase conductor flush-mounted}

The Radio transmitter with phase conductor is used to expand existing installations by permitting the wireless transmission of switching, pushing, dimming and shutter commands. The radio telegram is understood and evaluated by all the radio receivers in the Radio Bus system. The Radio transmitter with phase conductor has 4 operating modes:
Mode A: 2-channel dimming single-surface operation (toggling), application: series dimmers
The Radio transmitter with phase conductor sends one dimming/toggle command per channel, with a rocker button with 2 NO contacts for example.
Short actuation (<1s): switch on/off
Long actuation (> 1 s ): brighter/darker
Note: the telegram type (on/off, brighter/darker) is toggled in the transmitter. The Radio transmitter with phase conductor may therefore have to be actuated twice in order to obtain the desired reaction after it is been operated on the receiver or by a different transmitter.
Mode B: 2-channel switching; application: series switch
The flush-mounted radio transmitter with L conductor sends each channel a switch-on command when the voltage is connected, and a switch-off command when it is disconnected. Activation e.g. by: series switch = series switching. If activated by a time switch, a presence can be simulated.
Mode B: 2-channel switching; application: push-button / bell operationThe flush-mounted radio transmitter with L conductor sends an ON command when the push-button (NO contact) is pressed and an OFF command when it is released. Note: This operating mode is not suitable for activation of radio push-button actuators.
Mode C: 1-channel dimming two-surface operation
Application: 2-push-button dimmer
The Radio transmitter with phase conductor sends on/off dimming telegrams
(brighter/darker) for one channel. Activation: e.g. rocker button with 2 NO contacts
Actuation: \(\mathrm{E} 1<1 \mathrm{~s}\) : switch on
\(\mathrm{E} 1>1 \mathrm{~s}\) : brighter
E2 < 1 s: switch off
E2>1 s: darker
Note: a long actuation (> 1 s ) when the load is switched off causes switching on to minimum brightness (night light).
Mode D: 1 channel shutter
Application: shutter control
The flush-mounted radio transmitter with \(L\) conductor sends up/down shutter telegrams (short-term / long-term mode) for one channel. Activation: e.g. by RolloTec insert
Activation: E1>1s: move up
E1 < 1 s: blind adjustment upwards
E2>1 s: move down
E2 < 1 s: blind adjustment downwards
Note: The Radio transmitter with phase conductor must not be connected in parallel to a shutter motor.

\section*{Radio push-button interface 4gang flush-mounted}

The Radio push-button interface 4gang flush-mounted upgrades an existing installation by cordless transmission of dimming, switching, shutter control and light scene commands. Inputs E1-E4 are activated via potential-free switching and/or push contacts. The radio telegram is understood and evaluated by all the radio receivers in the Radio Bus system.
Activation: switches; application: 2 series switches
The Radio push-button interface 4gang flush-mounted sends a switch-on command to each channel when the switch is closed and a switch-off command when it is opened. Activation e.g. by 2 series switches produces 2 series connections.
The special "bell operation" function is possible with a push-button.
Activation: push-buttons; application: 4gang push-button or TS system. The Radio push-button interface 4gang flush-mounted sends the switching, dimming, shutter control or light scene commands for channels depending on the DIP switch setting (see table).
\begin{tabular}{|c|c|}
\hline Technical data Radio push-bu & e 4gang flush-mounted order no. 0126 \\
\hline Power supply unit & \(3 \mathrm{~V}=\) \\
\hline Battery & \(1 \times\) lithium coin cell (type CR20 32) \\
\hline Battery life & approx. 3 years \\
\hline Transmission frequency & 433.42 MHz, (ASK) \\
\hline Transmission range & max. 100 m (free field) \\
\hline Transmission power & \(<10 \mathrm{~mW}\) \\
\hline R\&TTE approval (for EU and EFTA states) & Yes \\
\hline Number of channels & 2 or 4 depending on mode \\
\hline Radio codes (assigned once per channel) & > 1 billion \\
\hline Light scenes & max. 4 depending on setting \\
\hline Operating temperature & 5 to \(55^{\circ} \mathrm{C}\) \\
\hline Index of protection & IP20 \\
\hline Conductor length & approx. 290 mm , extendable to max. 5 m \\
\hline Dimensions ( \(\mathrm{L} \times \mathrm{W} \times \mathrm{H}\) ) & \(44 \times 40 \times 11 \mathrm{~mm}\) \\
\hline
\end{tabular}


Radio push-button interface 4gang flush-mounted



\section*{BLC radio button}

The lighting can be switched on/off manually at the radio button or via a radio transmitter with BLC switch inserts, and it can also be made brighter/darker with BLC touch dimmers. The desired switch-on brightness can be stored in touch dimmers, and is retrieved for every switch-on command (memory value).

Light scene operation is also possible with the radio hand-held transmitter comfort or radio wall transmitter, or the radio push-button interface 4gang flush-mounted and HM 1801. If light scenes are assigned (taught-in) to the BLC radio button, the desired brightness value in BLC touch dimmers and the switching state in BLC switch inserts can be stored and set when a light scene is called up.

Pressing the ALL OFF / ALL ON push-button on a taught-in hand-held radio transmitter comfort, a radio transmitter wall-mounted or flat or the radio push-button interface 4gang flush-mounted and HM1801 switches the load on or off.

When a radio signal is received by the radio controller, it is switched on for approx. 1 minute (retriggering), and in BLC touch dimmers the memory value is set.

\section*{Radio universal cord dimmer / radio universal dimmer built-in}

The lighting can be switched on/off manually at the device or via a radio transmitter or via BLC extension units, and made brighter/darker via a radio transmitter and BLC extension unit. The desired switch-on brightness can be stored in touch dimmers, and is retrieved each time a switch-on command is given (memory value).

Light scene operation is also possible with the radio hand-held transmitter comfort or radio wall transmitter, or the radio push-button interface 4gang flush-mounted and HM 1801. If light scenes are assigned (taught-in) to the radio cord dimmer / built-in radio universal dimmer, the desired brightness value can be stored and set when a light scene is called up.

Pressing the ALL OFF / ALL ON push-button on a taught-in hand-held radio transmitter comfort, a radio transmitter wall-mounted or flat or the radio push-button interface 4gang flush-mounted and HM1801 switches the load on or off.

When a radio signal is received by the radio controller, the memory value is set for approx. 1 minute (retriggering).

The radio universal cord dimmer and the radio universal dimmer built-in are protected against short-circuit by an electronic circuit-breaker with automatic restart following elimination of the fault. They are protected against overload by low-noise power reduction and have a bulb-preserving soft start function.


\section*{BLC radio button e.g. with BLC universal touch dimmer}


Operation with extension unit
The Radio Bus planning instructions must be followed.
\begin{tabular}{lr} 
Technical data & BLC radio button order No. \(\mathbf{1 7 6 0 . .}\) \\
Power supply unit & from flush-mounted insert \\
Standby power consumption & approx. 0.68 W \\
Reception frequency & 43.42 MHz, (ASK) \\
Radio transmitter with teach-in facility & 30 \\
Radio codes (assigned once per channel) & \(>1\) billion \\
Distance from transmitter in teach-in mode & 0.5 to 5 m \\
R\&TTE approval (for EU and EFTA states) & Yes \\
Light scenes & 5 \\
Operating temperature & 4 to \(55^{\circ} \mathrm{C}\)
\end{tabular}

Operating temperature
4 to \(55^{\circ} \mathrm{C}\)
Index protection

\section*{Radio universal cord dimmer}


Operation with BLC extension unit

\section*{Technical data \\ Power supply unit
Connected load}

Radio universal cord dimmer order no. 0128
Connected load 230 V Incandescent and halogen lamps 50-315 W (ohmic, phase \(230 \mathrm{~V}, 50 / 60 \mathrm{~Hz}\)俍. transformers (min. 85 \% load) Total load 50-315 W including transformer powe loss may not exceed 315 VA (inductive load, phase cut-on) Mixed loads of specified load types (no combination of capacitive and inductive loads)
Dimming princoosters built-in depending upon type of load
Standby power consumption approx. 0.63 W
Switch-on Bulb-presenving soft start

Switch-on An Bulb-preserving soft start
No. of extension units
Reception frequency
Reception frequency
Radio transmitter with teach-in facility Very low nois
33.42 MHz (ASK)

Radio codes (assigned once per channel) \(\quad>1\) billion
Distance from transmitter in teach-in mode \(\quad 0.5\) to 5 m
Light scenes
Short-circuit-proof
Cut-out with auto. restar
Overheating protection Electronic protection (no change-over)
Radio interference suppression to EN 55015
Operating temperature 0 to \(55^{\circ} \mathrm{C}\)

Index of protection
Index of protection
\(.5 \mathrm{~mm}^{2}\)
Dimensions \((\mathrm{L} \times \mathrm{W} \times \mathrm{H})\)
Screw-type terminals for max. \(2.5 \mathrm{~mm}^{2}\) or \(2 \times 1.5 \mathrm{~mm}\)
\(125.7 \times 59.6 \times 29.6 \mathrm{~mm}\)

\section*{Radio universal dim actuator flush-mounted}

The lighting can be switched on/off manually on the device or via radio transmitter, and dimmed via radio transmitter.
The desired switch-on brightness value can be saved, and is called up with every switch-on command (memory value).

The radio hand-held transmitter comfort, wall-transmitter, push-button interface flush-mounted 4gang and HM 1801 can be used for light scene operation. If light scenes have been assigned (taught) to the radio universal dimmer flush-mounted, then the desired brightness value can be saved, which is set when a light scene is called up.

Pressing the ALL OFF button/ALL ON button of a taught radio hand-held transmitter, radio wall transmitter, radio push-button interface flush-mounted 4gang and HM 1801 causes the load to be switched off/on.

When a taught radio signal of the radio controller is received, the memory value is set for approx. 1 min. (retriggering).
\begin{tabular}{|c|c|}
\hline \multicolumn{2}{|l|}{Technical data} \\
\hline Power supply & \(230 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}\) \\
\hline Connected load 230 & ps and halogen lamps 50-210 W (ohmic, phase formers 50-210 W (capacitive, phase cut-off) or ded \(<85 \%\) ) incl. transformer power dissipation 50-210 VA (inductive, phase cut-on) \\
\hline & apacitive and inductive loads may not be mixed! \\
\hline \multicolumn{2}{|l|}{Dimming principle Phase cut-on or cut-off according to load type} \\
\hline \multicolumn{2}{|l|}{Power consumption, standby approx. 0.63 W} \\
\hline Switching on & bulb-preserving soft start \\
\hline Noise generation & very low noise \\
\hline Reception frequency & 433.42 MHz, (ASK) \\
\hline Teachable radio transmitters & 30 \\
\hline
\end{tabular}

\section*{Radio adapter plug universal dimmer}

The lighting can be activated on the device manually or using the radio transmitter. It can be dimmed using the radio transmitter. The desired switch-on brightness can be stored in touch dimmers, and is retrieved each time a switch-on command is given (memory value).

Light scene operation is also possible with the radio hand-held transmitter comfort or radio wall transmitter, or the radio push-button interface 4gang flush-mounted and HM 1801. If light scenes are assigned (taught-in) to the radio adapter universal dimmer, the desired brightness value can be stored and set when a light scene is called up.

Pressing the ALL OFF / ALL ON push-button on a taught-in hand-held radio transmitter comfort, a radio transmitter wall-mounted or flat or the radio push-button interface 4gang flush-mounted and HM1801 switches the load on or off.

When a taught-in radio signal is received by the radio controller, the memory value is set for approx. 1 minute (retriggering).


Radio control unit 1-10 V built-in
The lighting can be activated on the device manually or using the radio transmitter, and made brighter/darker. The desired switch-on brightness can be stored in touch dimmers, and is retrieved each time a switch-on command is given (memory value).

Light scene operation is also possible with the radio hand-held transmitter comfort or radio wall transmitter, or the radio push-button interface 4 gang flush-mounted and HM 1801. If light scenes are assigned (taught-in) to the radio control unit 1-10 V built-in, the desired brightness value can be stored and set when a light scene is called up.

Pressing the ALL OFF / ALL ON push-button on a taught-in hand-held radio transmitter comfort, a radio transmitter wall-mounted or flat or the radio push-button interface 4gang flush-mounted and HM1801 switches the load on or off.

When a radio signal is received by the radio controller, the memory value is set for approx. 1 minute (retriggering).

For dimensioning of switching power and control current, see Technical Information, 1-10 V devices.
Technical data
Stawe supply unit \(230 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}\)
Standby power consumption approx. 1,22 W
Control voltage
Max. control current
15 mA
Switching contact; Ohmic load;
Relay; 1800 W; type-dependent Electronic ballast, transformer; approx. 12 single-lamp-, 6 two-lamp electronic ballasts Reception frequency \(\quad 433.42 \mathrm{MHz}\), (ASK)
Radio transmitter with teach-in facility
Radio codes (assigned once per channel)

Radio universal dim actuator flush-mounted



Please observe the radio bus planning instructions
\begin{tabular}{lr} 
Radio universal dimmer flush-mounted & Order no. \(\mathbf{9 4 5 5 0 2 0 0}\) \\
\hline Radio codes (assign uniquely for each channel) & \(>1\) billion \\
\hline Distance to transmitter in teaching mode & 0.5 to 5 m \\
\hline R\&TTE approval (for EU and EFTA countries) & Yes \\
Light scenes & Switch-off with autom. restart electron. fuse (no change-over) \\
Short-circuit proof & autom. switch-off \\
Overheating protection & according to EN 55015 \\
Radio interference suppression & 0 to \(45{ }^{\circ} \mathrm{C}\) \\
Operating temperature & approx. 15 to \(50 \%\) \\
Operating humidity & IP20 \\
Protection class & approx. 210 mm \\
Conductor length & \(52.5 \times 27.5 \mathrm{~mm}\) \\
\hline Dimensions \((\varnothing \times \mathrm{H})\) & \\
&
\end{tabular}


\section*{Radio control unit 1-10 V built-in}

\begin{tabular}{lr} 
Radio control unit 1-10 V built-in & Order no. \(\mathbf{0 1 8 0}\) \\
Distance from transmitter in teach-in mode & 0.5 to 5 m \\
R\&TTE approval (for EU and EFTA states) & Yes \\
Light scenes & 5 \\
Fuse & Via 10 A circuit breaker \\
Radio interference suppression & to EN 55015 \\
Operating temperature & 0 to \(55^{\circ} \mathrm{C}\) \\
Index of protection & IP20 \\
Terminals & \\
Dimensions (L \(\times W \times H)\) & \\
& \\
& Screw-type terminals for max. \(2.5 \mathrm{~mm}^{2}\) or \(2 \times 1.5 \mathrm{~mm}^{2}\) \\
\hline \(188.5 \times 28 \times 28 \mathrm{~mm}\)
\end{tabular}

\section*{Radio switch actuator built-in}

In conjunction with taught-in radio transmitters, the Radio switch actuator built-in enables network-operated devices to be switched remotely. It switches electrical loads ( \(230 \mathrm{~V} / 10 \mathrm{~A}\) ) as soon as it has received a corresponding (taught-in) radio signal. The Radio switch actuator built-in can be operated via a BLC extension set or a push-button (NOC) as an extension unit.

Light scene operation (switching only) is also possible with the radio hand-held transmitter comfort or radio wall transmitter, or the radio push-button interface 4 gang flush-mounted and HM 1801. If a light scene is assigned (taught-in) to the radio switch actuator, a desired switching state (On/Off) can be stored and set when the light scene is called up.

Pressing the ALL OFF / ALL ON push-button on a taught-in hand-held radio transmitter comfort, a radio transmitter wall-mounted or flat or the radio push-button interface 4gang flush-mounted and HM1801 switches the load on or off.

When a taught-in radio signal is received by the radio controller, it switches on for approx. 1 minute (retriggering).

The special "bell operation" function is possible in conjunction with the radio transmitter with phase conductor flush-mounted or the radio push-button interface 4gang flush-mounted.

\section*{Technical data}

Power supply unit
230 V , 50/60 Hz
Switching contact
Switching capacity
230 V Incandescent and halogen lamps 2300 W (ohmic) Tronic transformers 1500 W (capacitive)
onv. transformers ( \(\geq 85 \%\) loading) incl. transformer power loss 1000 VA (inductive) Fluorescent lamps uncomp. 1200 VA, parallel comp. with \(47 \mu \mathrm{~F} 920 \mathrm{VA}\) (induktive) Duo circuit 2300 VA (induktive)
Mixed load; capacitive and inductive loads should not be mixed Number of extension units Any number of BLC extension units or push-buttons (NOC) Standby power consumption
approx. 0.71 W

\section*{Radio switch actuator flush-mounted}

In conjunction with taught-in radio transmitters, the radio switch actuator flush-mounted enables network-operated devices to be switched remotely..

Light scene operation (switching only) is also possible with the radio hand-held transmitter comfort or radio wall transmitter, or the radio push-button interface 4gang flush-mounted and HM 1801. If a light scene is assigned (taught-in) to the switch actuator, a desired switching state (On/Off) can be stored and set when the light scene is called up.

Pressing the ALL OFF / ALL ON push-button on a taught-in hand-held radio transmitter comfort, a radio transmitter wall-mounted or flat or the radio push-button interface 4gang flush-mounted and HM1801 switches the load on or off.

When a taught-in radio signal is received by the radio controller, it switches on for approx. 1 minute (retriggering).

The special "bell operation" function is possible in conjunction with the radio transmitter with phase conductor flush-mounted or the radio push-button interface 4gang flush-mounted.
\begin{tabular}{|c|c|}
\hline \multicolumn{2}{|l|}{Technical data} \\
\hline Rated voltage & \(230 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}\) \\
\hline Switching contact & Relay NO potential-free (FELV) \\
\hline Switching capacity & 230 V Incandescent lamps and halogen lamps 1000 W (ohmic) \\
\hline & Tronic transformers 750 W (capacitive) \\
\hline \multicolumn{2}{|l|}{Conv. transformers (<85\% loading) incl. transformer power loss 750 VA (inductive)} \\
\hline \multicolumn{2}{|r|}{Fluorescent lamp uncomp. 500 VA , parallel comp. 400 VA (induktive)} \\
\hline & Duo circuit 1000 W (induktive) \\
\hline \multicolumn{2}{|r|}{Mixed load; capacitive and inductive loads should not be mixed} \\
\hline Standby power consumption & approx. 0.56 W \\
\hline Reception frequency & 433.42 MHz, (ASK) \\
\hline
\end{tabular}

Radio switch actuator built-in with extension unit push-button (NOC)
The Radio Bus planning instructions


Operation with BLC extension unit
\begin{tabular}{lr} 
Radio switch actuator built-in & Order no. \(\mathbf{0 1 2 5}\) \\
Radio transmitter with teach-in facility & 30 \\
Radio codes (assigned once per channel) & \(>1\) billion \\
Distance from transmitter in teach-in mode & 0.5 to 5 m \\
R\&TTE approval (for EU and EFTA states) & Yes \\
Light scenes & 5 \\
Fuse & Via 16 A circuit breaker \\
Radio interference suppression & to EN 55015 \\
Operating temperature & -20 to \(55^{\circ} \mathrm{C}\) \\
Index of protection & \(I P 20\) \\
Terminals & \\
Dimensions (L×W \(\times \mathrm{H})\) & Screw-type terminals for max. \(2,5 \mathrm{~mm}^{2}\) or \(2 \times 1,5 \mathrm{~mm}^{2}\) \\
& \(175 \times 42 \times 18 \mathrm{~mm}^{2}\)
\end{tabular}


Radio switch actuator flush-mounted
Radio transmitters with flush-mounted
Radio interference suppression

\section*{Radio Bus System RMD}


\section*{Radio switch actuator 2gang flush-mounted}

In conjunction with taught-in radio transmitters, the radio switch actuator 2gang flush-mounted enables network-operated devices to be switched remotely.
The radio switch actuator 2gang flush-mounted is especially suitable for installation of a series connection from an existing switch-off without additional cable.
Light scene operation (switching only) is also possible with the radio hand-held transmitter comfort or radio wall transmitter, or the radio push-button interface 4 gang flush-mounted and HM 1801. If a light scene is assigned (taught-in) to the radio switch actuator 2gang flush-mounted, a desired switching state (on/off) can be stored and set when the light scene is called up.

Pressing the ALL OFF / ALL ON push-button on a taught-in hand-held radio transmitter comfort, a radio transmitter wall-mounted or flat or the radio push-button interface 4gang flush-mounted and HM1 801 switches the load on or off.
When a taught-in radio signal is received by the radio controller, it switches on for approx. 1 minute (retriggering).
The special "bell operation" function is possible in conjunction with the radio transmitter with phase conductor flush-mounted or the radio push-button interface 4gang flush-mounted.

Technical data
Nominal voltage
Switching contacts
Switching capacity
\(230 \mathrm{~V} \sim, 50 / 60 \mathrm{~Hz}\) 2 relays for every 1 NO 230 V Incandescent lamps 350 W (ohmic) Incandescent lamps 350 W (ohmic) Tronic transformers 300 W (capacitive)
Conv. transformers (<85\% loading) incl. transformer power loss 350 VA (inductive).
Conv. transformers (< \(85 \%\) loading) incl. transformer power loss 350 VA (inductive).
Fluorescent lamp uncomp. 350 VA (induktive) Mixed load; capacitive and inductive loads should not be mixed
Standby power consumption
approx. 0.37 W
33.42 MHz, (ASK)

\section*{Radio adapter plug switch actuator}

The radio adapter plug switch actuator in conjunction with taught-in radio transmitters permits remote switching of mains powered appliances (e.g. standard lamp, table top lamp, ventilator fan, stereo system etc.) with a mains plug.

Light scene operation (switching only) is also possible with the radio hand-held transmitter comfort or radio wall transmitter, or the radio push-button interface 4 gang flush-mounted and HM 1801. If a light scene is assigned (taught-in) to the switch actuator, a desired switching state (on/off) can be stored and set when the light scene is called up.

Pressing the ALL OFF / ALL ON push-button on a taught-in hand-held radio transmitter comfort, a radio transmitter wall-mounted or flat or the radio push-button interface 4gang flush-mounted and HM1801 switches the load on or off.

When a taught-in radio signal is received by the radio controller, it switches on for approx. 1 minute (retriggering)

The special "bell operation" function is possible in conjunction with the radio transmitter with phase conductor flush-mounted or the radio push-button interface 4gang flush-mounted.

\section*{Radio shutter actuator flush-mounted}

In conjunction with taught-in radio transmitters, the radio shutter actuator enables network-operated devices to be switched remotely.
Pressing a radio transmitter push-button \(<1 \mathrm{sec}\). adjusts the blinds; >1 sec. sends the drive into continuous operation for 2 minutes. It is particularly well suited to setting up a master and/or group control system from existing individual controls without additional wiring. They are flush-mounted in junction boxes, wall boxes, or in water-tight junction boxes in the shutter unit.

Light scene mode (end positions only) is possible with the radio hand-held transmitter comfort, the radio transmitter wall-mounted or flat or the radio push-button interface 4gang flush-mounted and HM1801. If a light scene is assigned (taught-in) to the radio shutter actuator flush-mounted, the desired end position (open/closed) of the blind can be stored and set when the light scene is called up.

Integration into the All OFF / ALL ON function (end positions only) is also possible.
Technical data
Nominal voltage

230 V~, 50/60 Hz
Nominal voltage
Switching contacts
Switching capacity
Standby pow
NOC mutually interlocked
max. 1 motor 700 W

Reception frequency approx. 1 sec . 433.42 MHz, (ASK)

Radio transmitters with teach-in facility
Radio codes (assigned once per channel)
\(>1\) billion

\section*{Radio switch actuator 2gang flush-mounted \\ }


Basic circuit
Radio switch actuator 2gang flush-mounted
Order no. 0129
Radio transmitters with teach-in facility
Radio transmitters with teach-in facility \(>1\) billion
0.5 to 5 m
Radio codes (assigned once per channel)
Distance from transmitter in teach-in mode 0.5 to 5 m

R\&TTE approval (for EU and EFTA states)
Light scenes circuit breaker
Recurity interference suppression to EN 55015
Radio interference suppression -20 to \(55^{\circ} \mathrm{C}\)
Operating temperatu
Dimensions \((\varnothing \times \mathrm{H})\)
\(52 \times 23 \mathrm{~mm}\)

\section*{Radio adapter plug switch actuator}

The Radio Bus planning


\section*{Technical data \\ Power supply unit}

Radio adapter plug switch actuator order no. 017809
230 V~, 50/60 Hz Switching capacity

V 1000 W (ohmic) 230 V Incandescent and halogen lamps 1000 W (ohmic)
Tronic transformer 750 W (capacitive) Conv. transformers ( \(\geq 85 \%\) loading) incl. transformer power loss 750 VA (inductive) Fluorescent lamps uncomp. 500 VA , parallel comp. with \(47 \mu \mathrm{~F} 400 \mathrm{VA}\) (induktive) Duo circuit 1000 VA (induktive) Mixed load; capacitive and inductive loads should not be mixed
Standby power consumption approx. 0.43 W
Increased child protection as per VDE 0620 part 1
433.42 MHz , (ASK)

Reception frequency
Radio transmitter with teach-in facility
\(>1\) billion
Radio codes (assigned once per channel)
0.5 to 5 m

Distance from transmitter in teach-in mode
Yes
5
Light scenes
T6.3 A
Fine-wire fuse \begin{tabular}{l} 
Radio interference suppression to EN 55015
\end{tabular}

Operating temperature \(\quad-20\) to \(55^{\circ} \mathrm{C}\)
Operating temperatu
IP20

\section*{Radio shutter actuator flush-mounted}


Basic circuit
For further applications, see following page
\begin{tabular}{lr} 
Radio shutter actuator flush-mounted & Order no. \(\mathbf{0 1 2 7}\) \\
\hline Distance from transmitter in teach-in mode & 0.5 to 5 m \\
R\&TTE approval (for EU and EFTA states) & Yes \\
Light scenes (only end positions) & 5 \\
Fuse & Via 10 A circuit breaker \\
Radio interference suppression & to EN 55015 \\
Operating temperature & -20 to \(55^{\circ} \mathrm{C}\) \\
Index of protection & IP20 \\
Dimensions ( \(\varnothing\) H) & \(52 \times 21 \mathrm{~mm}\)
\end{tabular}

Upgrade possible with RolloTec and Radio Bus with existing 230 V cable in shutter unit.


In many properties, a 230 V cable has been laid in the shutter unit in the course of renovation work. To then implement a control system, the following installation variant is possible: Install a radio shutter actuator flush mounted in a water-proof connection box, in the shutter box. Control of the shutters can be achieved by teaching-in the radio transmitter wall-mounted or flat and/or radio hand-held transmitter to the radio shuter actuator. Master control can be easily implemented with the radio transmitter with phase conductor flush-mounted e.g. in combination with a RolloTec timer (recommended: deep flush-mounted socket), This transmitter is taught-in to any radio shutter actuator in the shutter box. Prior to installation the radio signal range should be tested.

RolloTec standard insert with RolloTec radio button and radio shutter actuator: master and group control by radio


\section*{RolloTec radio button}

The radio button is a component of the RolloTec system. In conjunction with the RolloTec insert, it permits remote and manual operation of a tubular motor.

The \(\mathbf{\Delta}\) button raises the shutter, the \(\boldsymbol{\nabla}\) button lowers it.
The system can be controller using a radio hand-held transmitter, radio transmitter wall-mounted, radio push-button interface 4 gang flush-mounted, radio transmitter with phase conductor flush-mounted and HM 1801.

If a light scene is assigned (taught-in) to the button, a desired end position (open/closed) of the shutter can be stored and moved to when the scene is called up.
\begin{tabular}{lr} 
Technical data & \multicolumn{1}{c}{ RolloTec radio button order no. 1758..., 1759,. } \\
Power supply unit & from RolloTec insert 2911, 2925, 2975, 2975 01 \\
Standby power consumption & approx. 1.21 W \\
Sunlight brightness value (only 1759..) & approx. 5000 to 80000 Lux \\
Reception frequency & 433.42 MHz , (ASK) \\
Radio transmitter with teach-in facility & 30 \\
Radio codes (assigned once per channel) & \(>1\) billion \\
Distance from transmitter in teach-in mode & 0.5 to 5 m \\
R\&TTE approval (for EU and EFTA states) & Yes \\
Change-over time on change of direction & approx. 1 sec. \\
Light scenes (only end positions) & 5 \\
Operating temperature & 4 to \(55^{\circ} \mathrm{C}\) \\
Index of protection & IP20
\end{tabular}

1
For connection to master, group and individual control see RolloTec.


Radio presence detectors surface-mounted in an office

! Do not mount radio presence detector surface-mounted in the immediate vicinity of lights or ventilator fans. May only be operated with alkaline batteries, as they are the only ones with sufficient pulse current carrying capacity.
The Radio Bus planning instructions must be followed.

Radio presence detectors surface-mounted can only be taught into radio actuators version R2 or higher; a corresponding R2 designation is printed on the device.

As soon as a radio presence detector surface-mounted has been taught into a radio actuator, the corresponding actuator internally switches to light control mode and changes its behaviour.

Switching on by a brief press (>1s) locally or by radio control initially switches the associated actuator on for 2 minutes.
If no presence is detected during this time, it is switched off again
Switching off by a brief press (>1s) locally or by radio control initially switches the associated actuator off for 2 minutes. During this time, switching on is prevented by presence detection and is only possible manually (e.g. for slide show)

With a dimming actuator (e.g. BLC universal touch dimmer insert with BLC radio button, radio universal cord dimmer, radio control unit 1-10 V built-in etc.) a constant light control system can be set up. In this case, the target brightness value set on the radio presence detector surface-mountedis compared with the actual value and evaluated in the dimmer

On dimming actuators, the brightness can be changed by holding down the local or radio buttons, similar to a normal dimming operation,
The brightness value determined is temporarily used as the target brightness value until the next switch off, i.e. the radio presence detector attempts
to keep this new value constant.
Only one switch on or off is possible in conjunction with radio switch actuators. To prevent the occurrence of light oscillation (device constantly switches on and off) it may be necessary to increase the target brightness value by turning the brightness adjuster on the radio presence detector towards the symbol sun n general, the radio presence detector should not be installed too close to lamps, to minimise this effect. The brighter the lamp to be switched on is, the more significant the effect described above
\begin{tabular}{lr}
\hline Technical data & \\
\hline Power supply unit & \(6 \mathrm{~V}=\) \\
Batteries & \(4 \times 1.5 \mathrm{~V}\) Micro Alkaline (LR 03) \\
\hline Battery life (depending on load) & approx. 3 years \\
10x flashing for transmit operation & Batteries flat, replace \\
\hline Detection angle & \(360^{\circ}\) \\
Size of detection range at desk height & \(\varnothing\) approx. 5 m \\
Size of detection range at floor level & \(\varnothing\) approx. 8 m \\
Mounting height for nominal detection ranges & 2.5 m \\
Switching period & approx. 2 min. to 60 min. \\
Detection levels & 6 \\
Number of zones & 80
\end{tabular}
\begin{tabular}{lr} 
Radio presence detector surface-mounted & Order no. \(\mathbf{0 1 8 2 0 9}\) \\
Number of switching segments & 320 \\
Response sensitivity & 20 to \(100 \%\) \\
Target brightness value for light control & approx. 3 Lux to 1000 Lux \\
Transmission frequency & 433.42 MHz , (ASK) \\
Transmission range & max. 100 m (free field) \\
Transmission power & \(<10 \mathrm{~mW}\) \\
Radio codes (assigned once per channel) & \(>1\) billion \\
R\&TEE approval (for EU and EFTA states) & YES \\
Operating temperature & 0 to \(45^{\circ} \mathrm{C}\) \\
Index of protection & IP20 \\
Dimensions \((\varnothing \times \mathrm{H})\) & \(103 \times 42 \mathrm{~mm}\)
\end{tabular}

\section*{Radio controller flat}

The radio controller flat with integral brightness measurement allows the extension of existing installations by wireless transmission of switching commands.
On detecting movement, the radio controller flat sends an encrypted radio-telegram, which is understood and evaluated by all radio receivers in the radio bus system.

The radio controller flat is provided on the backside with two potentiometers, allowing the response sensitivity and activation brightness to be set.
Setting the activation brightness:
- Position • brightness-independent
- Adjustment range \(\cup\) approx. 1 to 80 Lux
- Position corresponds to - approx. 80 Lux.

This setting should be selected when using the radio controller power section; the activation brightness and the delay time can be set at the power section.

In connection with other radio bus receivers (BLC radio buttons, radio switch actuator adapters and built-in / radio switch actuators flush-mounted etc.) the controller triggers switching the load on for 1 minute (retriggering).

The radio controller 180 flat can be screwed or stuck to a flat surface (wood, plaster, glass, mirror etc.) as well as to appliance sockets with a frame.
\begin{tabular}{|c|c|}
\hline Technical data Ra & Radio controller 180 flat order no. 9420.. \\
\hline Power supply unit & \(3 \mathrm{~V}=\) \\
\hline Battery type & \(1 \times\) lithium coin cell (type CR 2450 N ) \\
\hline Battery life & approx. 2-3 years \\
\hline Rapid flashing of the red LED (approx. 1 s after sending) & g) battery flat, change it \\
\hline Transmission frequency & \(433.42 \mathrm{MHz},(\mathrm{ASK})\) \\
\hline Transmission range & max. 60 m (free field) \\
\hline Transmission power & \(<10 \mathrm{~mW}\) \\
\hline Radio codes (assigned once) & >1 billion \\
\hline R\&TTE approval (for EU and EFTA states) & Yes \\
\hline Number of channels & 1 \\
\hline Detection angle & \(180^{\circ}\) \\
\hline Detection field & semi-oval approx. \(10 \times 12 \mathrm{~m}\) \\
\hline Recommended mounting height & 1.1 m \\
\hline Response sensitivity & approx. 20 to 100 \% \\
\hline Response brightness & approx. 1 to \(80 / \infty\) Lux \\
\hline Operating temperature & 5 to \(35{ }^{\circ} \mathrm{C}\) \\
\hline Index of protection & IP20 \\
\hline Installation height & approx. 23 mm \\
\hline
\end{tabular}


\section*{Controller mounting}

Ensure that there are no interference sources, e.g. lamps or heaters, in the detection range.
For optimum detection the radio controller 180 should be mounted laterally to the direction of movement.
optimal


The detection beams are optimally cut.


The detection beams are not optimally cut. The range is reduced.


The detection beams are not cut.
The controller detects the object too late.
\begin{tabular}{|c|c|c|}
\hline \multicolumn{3}{|l|}{} \\
\hline  &  & Rotating and tilting possible \\
\hline \multicolumn{2}{|l|}{Technical data Ra} & o controller 180 order no. 01740109. \\
\hline \multicolumn{2}{|l|}{Battery type} & 9 V alkaline block battery 6LR61 \\
\hline \multicolumn{2}{|l|}{Service life of alkaline battery} & approx. 3 years \\
\hline \multicolumn{2}{|l|}{Power consumption} & Daytime operation 0.14 mW Night time operation 0.27 mW Radio transmission 27 mW \\
\hline \multicolumn{2}{|l|}{Transmission frequency} & 433.42 MHz , ASK \\
\hline \multicolumn{2}{|l|}{Transmission range} & approx. 100 m free field \\
\hline \multicolumn{2}{|l|}{Transmission power} & \(<10 \mathrm{~mW}\) \\
\hline \multicolumn{2}{|l|}{Radio codes (assigned once per channel)} & > 1 billion \\
\hline \multicolumn{2}{|l|}{R\&TTE approval (for EU and EFTA states)} & Yes \\
\hline \multicolumn{2}{|l|}{Detection angle} & \(180^{\circ}\) \\
\hline \multicolumn{2}{|l|}{Detection field} & \(16 \mathrm{~m} \times 32 \mathrm{~m}\) \\
\hline \multicolumn{2}{|l|}{Mounting height} & approx. 2.40 m \\
\hline \multicolumn{2}{|l|}{Response sensitivity} & 20 to \(100 \%\) \\
\hline \multicolumn{2}{|l|}{Brightness operating range} & 3 to 200 Lux \(\pm 50\) \% \\
\hline \multicolumn{2}{|l|}{Sensor, activation brightness} & less than 80 Lux \\
\hline \multicolumn{2}{|l|}{Sensor, night triggering} & to 200 Lux \\
\hline \multicolumn{2}{|l|}{Operating temperature} & -25 to \(55^{\circ} \mathrm{C}\) \\
\hline \multicolumn{2}{|l|}{Index of protection} & IP55 \\
\hline
\end{tabular}

Index of protection
Radio controller power pack surface-mounted
1. Always follow the Radio Bus planning instructions!


SCHUKO socket outlet with RCD protection switch / RCD protection switch The SCHUKO socket outlet with RCD protection switch and the RCD protection switch must be used anywhere that the use of residual-current protective devices according to VDE 0664 is specified.
According to DIN VDE 0100-410: 2007-06, alternating current systems must be provided with additional protection by means of residual-current protective devices \(\geq 30 \mathrm{~mA}\). This applies to socket outlets with a rated current not greater than 20 A that are intended for use by non-experts and for general use.
Exceptions are socket outlets that are constructed exclusively for connecting a specific piece of equipment, and socket outlets that are monitored with a residual-current monitor (RCM) by qualified electricians or persons with electrotechnical training, such as in one's own commercial or industrial systems, for example. The protection goal "Protection against direct contact" according to DIN VDE 0100 Part 410 is achieved. Socket outlets connected to the residual-current protected outgoing terminals (outgoing feeders) are likewise protected. Thus all loads connected to it are equipped with additional protection according to DIN VDE 0100 Part 410. Triggering is ensured in the event of AC fault currents, and pulsating DC fault currents \(\geq 30 \mathrm{~mA}\). The test button "T" can be used to test the electrical and mechanical functioning. The integrated switch lever can be used to switch the SCHUKO socket outlet with RCD protection switch and the RCD protection switch on again after triggering (when testing or after eliminating the fault).

Technical data
Rated voltage Rated current
RCD-proted outgoing conductor 16 A RCD-protected outgoing conductor 30 mA AC Phase, neutral Rated fault current Switch off time Surge energy capacity Rated short circuit capacity Rated switching capacity \(I_{m}\) \({ }_{12 t}{ }^{2 t-p r o o f}\),
\(250 \mathrm{~A}(8 / 20)\) us (DIN VDE 0432 part 2)
SCHUKO socket with RCD protection switch
\(230 \mathrm{~V}, 45-60 \mathrm{~Hz}\)

30 mA AC and pulsating DC
30 ms
Mounting orientation \(1 \mathrm{l} \quad 1.7 \mathrm{KA}\)

Mounting orientation
Attachment
Attachment
intended use
Operating temperature Index of protection
Index of proter
Terminals
Supply package

\section*{SCHUKO socket with RCD protection switch}

\section*{Connection diagram TN-C mains}


Connection diagram TN-S or TT mains


Permissible earthing resistance for 30 mA RCD protection switches for a highest permissible electric shock of: switches fora \(-25 \mathrm{~V}: 833 \Omega\)
\(-50 \mathrm{~V}: 1666 \Omega\)

\section*{RCD protection switch}


Connection diagram



Connection diagram TN-C mains Only in plants with existing inventory


Test button
Plug-in terminals for max. \(2.5 \mathrm{~mm}^{2}\) or \(2 \times 1.5 \mathrm{~mm}^{2}\)
SCHUKO socket with RCD protection switch, increased child-protection and centre plate
outgoing conductors outgoing conductors outgoing conductors outgoing conductors
\begin{tabular}{|c|c|}
\hline Technical data & RCD protection switch order no. 2844 \\
\hline Rated voltage & \(230 \mathrm{~V} \sim, 45-60 \mathrm{~Hz}\) \\
\hline Rated current & 16 A \\
\hline RCD-protected outgoing conductor & Phase, neutral \\
\hline Rated fault current & 30 mA AC and pulsating DC \\
\hline Switch off time & 30 ms \\
\hline Surge energy capacity & 250 A (8/20) \(\mu \mathrm{s}\) (DIN VDE 0432 part 2) \\
\hline Rated short circuit capacity & 3 kA with back-up fuse 16 A filament lamp \\
\hline Mounting orientation & any \\
\hline Wall box & to DIN 49073 part 1:1990-02 \\
\hline Attachment & Screw fixing \\
\hline Intended use & EN 61008 part 1 and 2-1: 1994 \\
\hline Operating temperature & -25 to \(40^{\circ} \mathrm{C}\) \\
\hline Index of protection & IP21 \\
\hline Outgoing conductors & stranded \(2 \times 1.5 \mathrm{~mm}^{2}\), approx. 20 cm \\
\hline Terminals & plug-in terminals for max. \(2.5 \mathrm{~mm}^{2}\) or \(2 \times 1.5 \mathrm{~mm}^{2}\) \\
\hline Insertion depth & 32 mm \\
\hline
\end{tabular}

\section*{Antenna technology terms}

Tap: for connecting one or more branch cables to a continuous trunk cable. The level of the branched signal is dependent on the attenuation of the branch.
ADR (Astra Digital Radio): digital audio radio programmes on a subcarrier analog TV transponder.
Azimuth: azimuth means the alignment of the south-facing satellite aerial (horizontal angle)
Band: band denotes a frequency range between two specified values.
Ku-Band: satellite transmission frequency band
SAT-bands: (SAT-IF, Input-IF) intermediate frequency bands used by satellite receivers:
\(950-1,750 \mathrm{MHz}\) (standard band)
\(950-2,050 \mathrm{MHz}\) (extended band)
\(700-2,050 \mathrm{MHz}\) (further extended band)
High band frequency range 11.7 to 12.75 GHz of a satellite. Here mostly only digital programmes are broadcast.
Low band frequency range 10.7 to 11.7 GHz of a satellite. Systems with older LNBs cannot receiver the whole range of the band (typically only 10.950 to 11.7 GHz analog).

\section*{\section*{CATV bands} \\ CATV bands}

Band I (VHF), channel 2-4
Band II (UKW), frequency 87.5-108 MHz
USB Band, Lower Special Channel Range (VHF), channels S2 - S10
Band III (VHF), channels 5-12
OSB Band, Upper Special Channel Range (VHF), channels S11 - S20
Hyperband (VHF), channels S21-S38
Bands IV and V (UHF), channels 21-69
Bandwidth: expression for a range of frequencies contained with a specific band.
BER (Bit error rate): denotes the quality of a data signal after it has been receives and demodulated. The lower the rate, the better the signal.
CATV: abbreviation for Community Antenna Television. Reception of radio and TV programmes using a community aerial. Used internationally in cable TV networks as cable television or broadband cable networks.
Conditional Access (CA) System: controls the access by users to services and programmes which are encrypted for copyright or commercial reasons.
Common Interface (CI): uniform interface for digital set-top boxes for PCMCIA modules with card readers for smart-card by practically all Pay-TV companies.
DAB (Digital Audio Broadcasting): designation for digital radio. The system offers additionally capacity for data transmission. Data compression is carried out using MPEG-2.
Data Rate: data bits transmitted per second. Is expressed in kbit/s or Mbit/s. The higher the data rate the better the transmitted signal.
Data Reduction: compression of image and sound signals. Redundant information is left out.
Attenuation loss: measurement in dB (decibel) resulting from the cabling and components.
Attenuation adjustment: to compensate for the frequency-dependant cable attenuation
dB - decibel: value often used to express the attenuation of a cable or a stage, or also the gain of an amplifier, aerial etc.
d-box: digital set-top box for Premiere World.
DiSEqCTM (Digital Satellite Equipment Control): Switching signal generated by the satellite receiver, for controlling and switching LNB and multi-switches. This allows several satellite positions for rotary and multi-feed systems to be controlled. DiSEqC is a trade mark of the European Satellite Organization (EUTELSAT) and arose out of cooperation between EUTELSAT and Phillips.
Dolby Digital Sound Processing: this enables a digital surround sound to be reproduced in a home cinema system.
Pass-through attenuation: reduction in the signal level at each output, e.g. at distributors, aerial sockets etc.
DVB (Digital Video Broadcasting): transmission of video and sound signals in digital form.
DVB-S stands for satellite cable transmission, DVB-T for terrestrial cable transmission and DVB-C for cable transmission.
Single-cable system: matrix for distributing 1.SAT-ZF satellite programmes using a cable network in a tree structure.
Elevation: by elevation is meant the vertical angle (inclination) of the aerial
EPG (Electronic Programme Guide): electronic program guide
Decoupling attenuation (directional attenuation) attenuation of the output sockets relative to each other
FEC (Forward Error Correction): a technique for reducing the error rate in a data transmission. Additional bits are inserted into the data stream so that error correction algorithms can be used on reception.
Field strength meter: an instrument used by technical staff to measure the signal strength of a radio or TV channel. The same instrument can be used for precise alignment of the aerial so that the maximum signal strength is achieved and for the checking the signal level at connections to community systems
Free-to-Air: free-to-air receivers receive exclusively free (non-encrypted) programmes.
Gain: unit of measurement expressed in dB for the amplification capabilities of a parabolic aerial or an amplifier. Gain is the opposite of attenuation. The gain of an aerial depends on the diameter of the parabolic mirror and its efficiency. The larger the better!
Coaxial cable: shielded cable with inner and outer conductor, insulated from each other by a material (solid PE / cellular PE), which ensures a very small signal loss. The outer conductor (shield) serves to protect the inner conductor against external interference, and thus minimises the signal loss on the inner conductor. Cable recommendation for satellite reception: low attenuation approx \(27 \mathrm{~dB} / 100 \mathrm{~m}\) at \(2,000 \mathrm{MHz}\) and shielding class \(>90 \mathrm{~dB}\) (class A ).
LNB - Low Noise Block converter: a feed system also known as LNC. Reception unit at the focus of the parabolic mirror, which converts the high-frequency satellite downlink into a 1.Sat intermediate frequency suitable for the receiver. The main distinctions are:
Single Universal LNB for 1 subscriber high band and low band
Twin Universal LNB for 2 subscribers (twin receiver) high band and low band
Quattro Switch LNB for 4 subscribers high band and low band
Quattro Switch LNB with 1 terrestrial input for 4 subscribers high band, low band and terrestrial Quattro Universal LNB for multi-switch with 4 outputs (horizontal / vertical / high band / low band)
Octo Switch LNB for 8 subscribers high band and low band
LNB Skew (LNB Tilt): LNB Skew denotes the rotation of the LNB in relation to its vertical position in the bracket. This allows precise positioning of the LNB to obtain the best possible reception quality (e.g. in Germany \(42^{\circ}\) East is required for Tüksat).
LOF (Local Oscillator Frequency): stated in MHz or GHz, varies depending on the LNB and reception frequency range. In the Ku band the relationship is: transmission frequency of the satellite - LOF = receiver reception frequency

MPEG-2: data compression process for images and sound. In contrast to conventional analog technology (where 25 full images with all information are transmitted per second) the MPEG technology (where 25 full images with all information are
process deals with only the actual changes in the image.
Multi-feed: a technique that allows reception of multiple satellites using one a single fixed aerial. Multi-switch: conventional distributors are insufficient to distribute satellite signals. Each subscriber must be able to switch between different reception levels, frequency ranges and even different satellites. Only by this means is reception of all programmes possible. For this, an electronic changeover switch is required, which is called a multi-switch (up to 100 subscribers) Many models also allow a feed of conventional terrestrial programmes. When receiving from 2 o more satellites the DiSEqC switch is required, which controls multi-switches and also receivers. Network Search: some transponders receive within the digital data stream a list with the data for other transponders, so as for example to facilitate a search for all programmes of a provider, which may occupy several transponder frequencies. Data transmitted in this way are however often incorrect or incomplete.
Aperture angle: the aperture angle of a SAT aerial can be regarded as denoting the "angle of view" of the SAT aerial towards the satellite. It is expressed in degrees and depends on the design and size of the SAT aerial. To prevent interference from nearby satellites it is recommended that the aperture angle should where possible be less than 3 degrees. SAT aerials of diameters from 60 cm offer this capability.
List of the most used designs for parabolic mirror satellite (reception) aerials. Concentrates the electromagnetic waves in the feed system (LNB).
Signal Level Adjuster: for reducing levels that are too high (cable equalisation)
Polarisation: this is plane of the electrical components of an electromagnetic wave (direction of oscillation). For satellite transmission two different planes are used: the horizontal and the vertical (linear polarisation), the better to exploit the frequency spectrum
The system is based the bands for two adjacent channels being positioned so they partially overlap each other. The interference that could result is prevented by polarising the two channels in different planes.
QAM (Quadrature Amplitude Modulation): digital modulation process with phase shift keying, used for transmission in cable networks.
QPSK (Quadrature Phase Shift Keying): digital modulation process used for satellite transmission. Return Channel: projected interactive applications such as home shopping or Internet access require a return channel. This can for example be provided by a modem incorporated within the digital receiver.
SMATV (Satellite delivered Master Antenna Television System): communal system that has been extended for the reception of satellite signals.
SR (Symbol Rate): parameter that must be entered to allow manual searching of the receiver. (e.g. 22000, 27500)
Terrestrial: denotes all radio services on the surface of the earth with the exception of space and astronomical broadcasting. A "normal" (terrestrial) domestic aerial can receive TV and radio programmes.
Tone-Burst: a type of Mini-DiSEqC has been defined as an economical way of extending old systems to a wider circuit configuration (in addition to 14/18 Volt and 22 kHz ). This is often referred to as Simple DiSEqC or as Tone-Burst. This merely modulates a sequence of bits " 0 " (satellite A) or "1" (satellite B) to the 22 kHz signal. The Tone-Burst signal was developed to permit simple changing over between two LNBs and is suitable for controling relays (two inputs at one output) and for the new Monoblock LNB. For SAT position A the 22 kHz signal is sent continuously, for SAT position B it is pulsed. A Tone-Burst signal lasts for about 12.5 ms .
Transponder frequency containing multiple channels. In analog systems a TV program and multiple sound channels can be transmitted for each transponder. In digital systems (QPSK) is the transmission capacity is 6-10 TV programmes with sound channels.
Carrier: wave at very high frequency, which by means of modulation is able to convey a radio or TV signal over a very great distance.
Carrier/Noise: describes the signal quality of the aerial that is forwarded to the receiver. (also C/N ratio). The \(\mathrm{C} / \mathrm{N}\) ratio is measured in dB and must always be above the threshold level ( \(>6 \mathrm{~dB}\) ) of the receiver.
Twin-Receiver: satellite receiver with two separate independent reception components in one box (e.g. for independent connection of a TV receiver and a video recorder)

Triple play capability to use broadband cable for broadcasts (television), telephone and Interne Twin receiver satelifte receiver with two separate, independent receivers in a single housing (e.g. for independent connection of a TV receiver and a video recorder).
USB-Box: external box which is connected to the PC through the USB port (Universal Serial Bus) This external box allows digital radio and TV programmes, and also multi-media services to be received by satellite.
Power Supply: the satellite receiver supplies the LNB with power via the coaxial cable
The voltage of the supply also determines which polarisation plane is returned by the LNB.
14 Volt = vertical, 18 Volt = horizontal polarisation planes.
Distributor: for distributing the energy of an incoming main trunk cable into two or more trunk cables.
Amplifier: for increasing the aerial signal level
Video bit rate: quantity of data transmitted per second by a digital video signal.
Switch: for combining or splitting frequency ranges and individual channels.

\section*{Instructions for coaxial cables}

\begin{tabular}{|lll} 
Attenuation types \\
\begin{tabular}{l} 
Transmission loss \\
Attenuation for through-sockets \\
between trunk input and trunk \\
output
\end{tabular} & \begin{tabular}{l} 
Decoupling internal \\
Atteruation between plug \\
output and socket output.
\end{tabular} \\
Atrunk in
\end{tabular}

\section*{Planning recommendations}

Terminal boxes have no decoupling, and are always branched with splitters. The connection at a branch is also called a spur, and only here can a terminal box be connected. At the through passage of a splitter, on the other hand, only through-sockets or other splitters may be connected. Distributors (too little decoupling) only throughsockets can be connected, because only in this manner will the de-coupling be sufficient. The last
Noise factor C/N
The signal-to-noise ratio is the ratio, expressed in decibels, of the signal power to the noise power. The noise factor indicates how much smaller the signal-to-noise ratio at the output of an active module (e.g. amplifier) is than the signal-to-noise ratio at the input.
\begin{tabular}{c|c|c} 
Signal-to-noise ratio & Noise & picture quality \\
\hline\(<46 \mathrm{~dB}\) & not visible & very good \\
\hline 37 dB & visible, but not annoying & good \\
\hline 30 dB & clearly visible, annoying & unsatisfactory \\
\hline\(<26 \mathrm{~dB}\) & outweighs & unusable
\end{tabular}
\begin{tabular}{|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{\begin{tabular}{l}
Level recommendation at \\
Frequency (measuring device setting)
\end{tabular}} & \multicolumn{2}{|l|}{Level in \(\mathrm{dB} \mu \mathrm{V}\) (unsensitiv)} & Slope & \multirow[b]{2}{*}{noise factor/Quality/ bit error rate} \\
\hline & min. & max. & max. & \\
\hline \[
\begin{gathered}
\text { UKW } \\
87,5-108 \mathrm{MHz} \\
\text { (FM) }
\end{gathered}
\] & 50 & 70 & 15 & C/N: 38 dB Mono C/N: 48 dB Stereo \\
\hline Terrestrial analogue \(87,5-108 \mathrm{MHz}\) (VSB-AM) & 60 & 80 & 12 & C/N: 44 dB \\
\hline \[
\begin{gathered}
\text { Terrestrial digital } \\
47-862 \mathrm{MHz} \\
\text { (COFDM) } \\
\hline
\end{gathered}
\] & 45 & 70 & 12 & C/N: 25 dB; BER: < 2.0 E-4 (before Viterbi FEC 3/4) | MER: 24 dB \\
\hline CATV analogue 47-862 MHz (VSB-AM) & 60 & 80 & 12 & C/N: 44 dB \\
\hline \[
\begin{aligned}
& \text { CATV digital } \\
& 47-862 \mathrm{MHz}
\end{aligned}
\]
(64-QAM) & 47 & 67 & 12 & \[
\begin{aligned}
& \text { BER: } 2.0 \mathrm{E}-7 \\
& \text { MER: } 30 \mathrm{~dB}
\end{aligned}
\] \\
\hline \[
\begin{gathered}
\text { SAT-IF analogue } \\
950-2150 \mathrm{MHz} \\
\text { (FM) } \\
\hline
\end{gathered}
\] & \[
\begin{gathered}
47 \\
(55)
\end{gathered}
\] & \[
\begin{gathered}
77 \\
(70)
\end{gathered}
\] & \[
\begin{aligned}
& 15 \\
& (7)
\end{aligned}
\] & \(\mathrm{C} / \mathrm{N}: 15 \mathrm{~dB}\) at 27 MHz \(\mathrm{C} / \mathrm{N}: 12 \mathrm{~dB}\) at 36 MHz \\
\hline \[
\begin{aligned}
& \text { SAT-IF digital } \\
& 950-2150 \mathrm{MHz} \\
& \text { (QPSK) }
\end{aligned}
\] & \[
\begin{gathered}
47 \\
(53)
\end{gathered}
\] & \[
\begin{gathered}
77 \\
(70)
\end{gathered}
\] & \[
\begin{aligned}
& 15 \\
& (7)
\end{aligned}
\] & C/N: 11 dB ; BER: 2.0 E-4 (before Viterbi FEC 3/4) MER: 15 dB \\
\hline
\end{tabular}
- LCD, plasma and 100 Hz televisions need larger signal-to-noise ratios for a visually less noisy picture
( 50 dB ). The level should not exceed 74 dB .
- Execute the system as a star topology if possible
- Install coaxial cables in ductwork systems
- Observe bending radii of the coaxial cables
- Install amplifiers in dry spaces with their own power supply
- Provide a ductwork connection to basement storage
- Connect building distribution network to building equipotential bonding
- Frequency range broadband cable network \(\mathrm{BC}: 47-862 \mathrm{MHz}\)
- Frequency range SAT-IF: 950-2400 MHz

Dimension aerial sockets for broadband
- Shielding efficiency building distribution network min. 75 dB better according to Class A
- Use return path compatible components for connection to the backbone

Aerial system terrestrial and/or broadband cable BK in tree structure
1: Amplifier
: Aerial socket 2-hole Pass-through socket order no. 4515 3: Terminal resistor order no. 4503


Aerial system terrestrial and/or broadband cable BK in radial structure

\section*{1: Amplifier \\ 2: Tap}
3. Aerial socket 2 -hole Single socket order no. 4502
: Terminal resistor order no. 4503
I. If only 1 aerial socket is available in a broadband cable system, a through box with terminating resistor must be used.

Aerial system terrestrial and/or broadband cable BK in tree structure/radial structure 1: Amplifier
2. Distributor
3: Aerial socket 2-hole pass-through socket
order no. 4515
4: Terminal resistor order no. 4503


SAT aerial system with single universal LNB for analog and digital reception of a satellite.
1: Aerial socket 3-hole single socket order no. 4522
2: Switch for insertion of terrestrial signals e.g. for regional
FM/TV 1 reception. 1


SAT aerial system with twin universal LNB for 2 receivers or twin receiver for viewing one channel and recording another,

\section*{e.g. 2 x Astra.}

For analog and digital reception of a satellite.
1: Aerial socket 3-hole
Single socket order no. 4522
2: Aerial socket 4-hole
Single socket order no. 4594
3: Switch for insertion of terrestria
signals e.g. for regional FM/TV reception.


SAT aerial system with 2 squinting single universal LNBs e.g. for Astra and Eutelsat reception For analog and digital reception of two satellites.
1: Aerial socket 3-holeSingle socket order no. 4522
2: DiSEqC switch
3: Switch for insertion of terrestrial signals e.g. for regional FM/TV reception.

SAT aerial system with 2 squinting single universal LNBs e.g. for Astra and Eutelsat reception For analog and digital reception.

\section*{1: Aerial socket 3-
2: DiSEqC switch \\ 4. Aerial socket 4-hole single socket order no 4594 4-hole aerial socket for viewing one channel and} recording another.


SAT aerial system with Quattro switch LNB e.g. for 4 receivers, e.g. \(4 \times\) Astra. For analog and digital reception of a satellite.

1: Aerial socket 3-hole
Single socket order no. 4522
2: Aerial socket 4-hole
Single socket order no. 4594


Aerial system SAT with single universal LNB for approx. 3 aerial sockets. For analog and digital reception of a satellite. Also for use behind a multi-switch!
1: Aerial socket 3-hole pass-through socket order no. 4593
2: Aerial socket 3-hole single socket order no. 4522
Function: If both aerial sockets are used at once, the plane (horizontal or vertical) is determined at the first aerial socket and so only this is available to be received at the second aerial socket.

Aerial system SAT with Quattro universal LNB for analog and digital reception of a satellite, e.g. Astra.
1: Multi-switch with amplifier
3. Aerial socket 4 -hole single socket order no. 4522
alternatively 4-hole aerial socket forder no. 4594
one channel and recording another.
4: optional switch or amplifier only when the
terrestrial input is being used.
By cascadable multi-switches and taps/distributors expandable to
100 subscribers optionally with terrestrial input as an alternative.


SAT aerial system with 2 squinting Quattro universal
LNBs for analog and digital reception of two satellites

\section*{e.g. Astra and Eutelsat.}

1: Multi-switch with amplifier
2: Aerial socket order no. 4522 (single socket)
Aerial socket order no. 4594 (single socket) atternatively 4-hole aerial socket for viewing on channel and recording another.
4: optional switch or amplifier only when the terrestrial input is being used e.g. for regional FM/TV 1 reception. 1

\section*{By cascadable multi-switches and taps/ optionally with terrestrial input as an alternative.}

Antenna system SAT single-cable solution with Quattro Switch LNB for digital reception of a satellite, e.g. Astra or Eutelsat.

\section*{1: SAT antenna from Hirschmann type: CS 400}

2: Amplifier from Hirschmann type: GNS 320
3: Digital single-cable system device from Hirschmann type: CEF 211 D 4: Distributor 4gang from Hirschmann type: VFC 0741 SF
5: Aerial socket 3-hole throughpass socket order no. 4523
6: Terminating resistor order no. 4503
Functional only with the specified types
Antenna system SAT single-cable solution in combination Multiswitch on Quattro Switch LNB for digital reception of a satellite, e.g. Astra or Eutelsat.
1: SAT antenna from Hirschmann type: CS 400 2: Amplifier from Hirschmann type: GNS 320
3: Distributor from Hirschmann type: VFC 4: Distributor from Hirschmann type: VFC 0421 SF 5: Digital single-cable system device
from Hirschmann type: CEF 211 D
6: Multiswitch from Hirschmann type: CKR 5041 7: Distributor from Hirschmann type: VFC 0631 S 8: Aerial socket 3-hole single box Order no.: 4522 9: Aerial socket 3-hole throughpass socket Order no.: 4523
0: Aerial socket 4-hole single box order no. 459
11: Terminating resistor order no. 4503
Functional only with the specified types.



\section*{S-Video module}

The S-Video (also known as Separate Video, Y/C) module is used in order to transmit brightness (luminance) and colour (chrominance) information separately. The cable length should not exceed 10 m .

\section*{PIN Transfer signal
1
1 \(\begin{array}{ll}2 & \text { Chrominance (C) earth } \\ 3 & \text { Intensity (luminance) } Y\end{array}\) \(4^{*}\) Colour (chrominance) C}

\section*{Cinch module}

Cinch (RCA) designates a standardised connector for transmission of electrical signals, preferably via coaxial cables. The use of other types of cables is not widespread, but is possible.


\section*{TAE socket outlets}



\begin{tabular}{l} 
TAE \(2 \times 6 / 6\) NFF \\
\begin{tabular}{|llllllll}
\hline 1 & 2 & 3 & 4 & 5 & 6 \\
\hline
\end{tabular} \\
\hline
\end{tabular}

\section*{Connection variants on ISDN- \(\mathrm{S}_{0}\) bus}


Pin assignment of FCC socket outlets


\section*{Contact assignment FCC RJ45}


\section*{Definition of terms}

Resolution Measure of the size of a picture, measured by the number of pixels (pixel density) or in the number of rows and columns (width and height).

HDCP (High Bandwidth Digital Content Protection) Copy protection for high bandwidth digital program contents in conjunction with DVI and HDMI.

MPEG (Moving Video Expert Group) Reduction method for image and sound data. In contrast to analogue methods (here, 25 complete images with all the relevant information are transmitted per second), the MPEG method uses only actual image changes and calculates the full image to be displayed.

DVB (Digital Video Broadcasting) Standardised method to transmit compressed (MPEG-2, H.264) digital content (TV, radio, multi-channel sound, spatial sound, interactive services). DVB-S stands for satellite transmission, DVB-T for terrestrial and DVB-C fir cable.

\section*{Interface standards}

USB (Universal Serial Bus) [USB / jack socket, order no. 331539 ..] Serial bus system to connect computer systems and display devices to external devices or storage media. Connection is possible during operation. The properties of connected devices are detected automatically. For home cinemas, storage media such as USB sticks and hard drives help to expand the recording devices for connection to pure playback devices.

HDMI (High Definition Multimedia Interface) [High Definition socket, order no. 331542 ..] Interface for fully-digital transmission of audio and video data. HDMI video data are reverse-compatible to DVI-D.

DVI (Digital Video Interface) Standard interface for transmitting image data. This interface can be used to connect display devices such as LCD displays, projects, TFT monitors, plasma displays or video cameras to the graphics card of a computer.

Video transmission signals:
- DVI-I: analogue and digital
- DVI-D: digital
- DVI-A: analogue

\section*{Audio standards}

Dolby® Digital (also termed 5.1 sound) Digital multichannel audio system for cinemas and home cinemas. Successor system to Dolby Surround (or
also Dolby 2.0). Dolby® Digital supports up to 6
 discreet channels (5 loudspeakers, 1 subwoofer) and uses imperfect data compression.

Dolby® TrueHD Loss-free audio codec, specially developed for use on disc media such as HD-DVD and Blu-ray.

\section*{Video standards}

HD ready Technical specification for a device to play back high-definition television (HDTV):

- Analogue component input (YPbPr / YUV)
- Digital, copy-protection-capable (HDCP) input (DVI-D/-I or HDMI) - Support of the HD video formats 720p and 1080i (for \(50 / 60 \mathrm{~Hz}\) image repeat rate)

Full HD Ability of a HDTV-compatible device (receiver, TV, DVD player, video camera, games console, etc.), to output or record HD resolutions. Due to different manufacturer designs (1080p full images, 1080i half images), this is not an indication of the image quality, image dimension or the display output of the device.

HDTV (High Definition Television) Global digital recording, production and transmission standard for television with a usable image resolution of up to \(1920 \times 1080\) pixels in a 16:9 format.
\begin{tabular}{|c|c|c|c|}
\hline & \multirow[t]{2}{*}{PAL} & \multicolumn{2}{|r|}{HDTV} \\
\hline & & \[
\begin{gathered}
\text { HD ready } \\
(720 p) \\
\hline
\end{gathered}
\] & \[
\begin{gathered}
\text { HD ready } \\
(1080 \mathrm{i} / 1080 \mathrm{p})^{*} \\
\hline
\end{gathered}
\] \\
\hline Logo & & \[
\frac{\text { HD }}{\text { ready }}
\] & Fullio \\
\hline Vertical resolution (image lines) & 576 & 720 & 1080 \\
\hline Horizontal resolution (image columns) & 720 & 1280 & 1920 \\
\hline Pixels (max.) & 414720 & 921600 & >2 million \\
\hline format & 4:3 & 16:9 & 16:9 \\
\hline Frequency & 50 Hz & \(50-60 \mathrm{~Hz}\) & \(50-60 \mathrm{~Hz}\) \\
\hline
\end{tabular}

Table 1: TV standards and data
*1080i (interlaced, half image method)
Advantage: Half transmission rate
Disadvantage: Half images must be recombined through a converter in the TV device
*1080p (progressive, full image method) Advantage: No subsequent combination of the images requires, as all 1080 are shown simultaneously with full pixel accuracy within a frame Disadvantage: Very high transmission rate
\begin{tabular}{lr}
\hline Analogue video formats & \\
\hline VHS & \(320 \times 200\) pixels \\
Hi8 & \(576 \times 420\) pixels \\
S-VHS & \(640 \times 480\) pixels \\
\hline Digital video formats & \(352 \times 288\) pixels \\
\hline VCD & \(576 \times 480\) pixels \\
SVCD & max. \(720 \times 576\) pixels
\end{tabular}

Table 2: Resolution of current PAL video formats
Video images with a low resolution of a 4:3 side ratio (SD, standard definition) must be scaled up for playback on HDTV devices. Detail losses lead to a poorer image quality.
\(1920 \times 1080\) (HDTV/HD ready 1080i/1080p)


Figure 1: Format comparison

\section*{Connectors}

Jack connector [USB / jack socket, order no. 331539 ..]


Right channel
(usually 2.5 or 3.5 mm Ø) to connect portable audio playback devices (e.g. iPod, CD/DVD or MP3 player) to AV receiver or amplifier.

Application example for Berker Multimedia Outlet
for flush mounting or hollow-wall mounting


Dimensional drawings

MODUL 2


\section*{BERKER S. 1}


BERKER B. 1



BERKER B. 3


BERKER B. 7 GLAS



Dimensional drawings Serie 1930 Porzellan/Serie 1930/ Glasserie/Palazzo/Splash-protected flush-mounted IP44

SERIE 1930 PORZELLAN MADE BY ROSENTHAL / SERIE 1930



PALAZZO

WG UP IP 44


Dimensional drawings Berker Q.1/K.1/K.5/Arsys/Berker TS

\section*{BERKER Q. 1}


BERKER K.1/K. 5


BERKER ARSYS


BERKER TS


Dimensional drawings

\section*{BERKER GLASS SENSOR AND GLASS SENSOR WITH ROOM THERMOSTAT}



Push-button 4 gang
Light scene Push-butto
Light scene Push-button 8gang
 Labelling field for B.IQ push-button 4gang

(IR) push-buttons with room thermostat


Labelling field for B.IQ push-button 5 gang

\section*{SURFACE-MOUNTED}


Dimensional drawings Berker Integro


BERKER INTEGRO FLOW


Dimensional drawings Aquatec/ISO-Panzer


ISO-PANZER


SCHUKO-double socket with hinged cove


SCHUKO 3gang socket with hinged cover


Order no.
Packing
unit
MOUNTING PLATES
Blank plates
\begin{tabular}{ll} 
Mounting plate unperforated \\
black \\
& 111100 \\
For data connector housing order no. 1110.., \\
\(111502,1119 \ldots, 1126 ~ . ., 4256 ~ 15 ~\)
\end{tabular}
for customised cut-outs or holes when installing special solutions
\begin{tabular}{|c|c|}
\hline & Mounting plate for XLR built-in jack C-series \\
\hline & black 11110510 \\
\hline & For data connector housing order no. 1110 .., 1115 02, 1119 .., 1126 .., 425615 \\
\hline \multirow[t]{13}{*}{1 on page T73} & \\
\hline & XLR-circular plug-in connector: \\
\hline & Binder; \\
\hline & Cannon; \\
\hline & Conrad Electronic; \\
\hline & Farnell; \\
\hline & Hirose; \\
\hline & Lumberg; \\
\hline & Monacor; \\
\hline & RS Components; \\
\hline & XLR circular plug-in connector: \\
\hline & Neutrik \\
\hline & ■ with cut-out dia. 24.5 mm \\
\hline
\end{tabular}


Mounting plate for XLR built-in plug P-series
\#1111 06
10

For data connector housing order no. 1110 .., 1115 02, 1119 .., 1126 .., 425615
I on page T73
XLR-circular plug-in connector:
Binder;
Cannon;
Conrad Electronic;
Farnell;
Hirose;
Lumberg;
Monacor;
RS Components;
XLR circular plug-in connector:
Neutrik
- with cut-out dia. 19.5 mm
\begin{tabular}{|c|c|}
\hline & Mounting plate for diodes built-in plug/jack \\
\hline & black \#111109 10 \\
\hline & For data connector housing order no. 1110 .., 1115 02, 1119 .., 1126 .., 425615 \\
\hline \multicolumn{2}{|l|}{1 on page T 73} \\
\hline & Circular plug-in connector: \\
\hline & Cannon; \\
\hline & Conrad Electronic; \\
\hline & Farnell; \\
\hline & Lumberg; \\
\hline & Monacor; \\
\hline & RS Components \\
\hline & ■ with cut-out dia. 16.5 mm \\
\hline
\end{tabular}

\begin{tabular}{|c|c|}
\hline & Mounting plate for \(2 \times\) BNC/TNC built-in jack/ plug \\
\hline & black \#1112 14 \\
\hline \multirow[t]{2}{*}{1 on page T73} & \begin{tabular}{l}
For data connector housing order no. 1110 .., 1115 02, 1119 .., 1126 .., 425615 \\
For BNC built-in jack order no. 1840
\end{tabular} \\
\hline & \begin{tabular}{l}
with cut-out dia. 9.8 mm \\
for sockets/plugs with solder connection
\end{tabular} \\
\hline
\end{tabular}

Order no.
Packing
unit
Mounting plate for \(2 \times\) BNC built-in jack/plug

black \(\quad 111213\)

For data connector housing order no. 1110 .., 1115 02, 1119 .., 1126 .., 425615
I on page T73
■ with cut-out dia. 11 mm
\begin{tabular}{|c|c|}
\hline & Mounting plate for \(2 \times\) BNC/TNC built-in jack/plug \\
\hline & black \#1112 12 \\
\hline 1 on page T73 & For data connector housing order no. 1110 .., 1115 02, 1119 .., 1126 .., 425615 \\
\hline
\end{tabular}
\begin{tabular}{|c|c|}
\hline & Mounting plate for IBM data plug \\
\hline & black \#111104 10 \\
\hline & For data connector housing order no. 1110 .., 1115 02, 1119 .., 1126 .., 425615 \\
\hline \multicolumn{2}{|l|}{I on page T73} \\
\hline & Data plug: \\
\hline & Dr. Ing. Sieger; \\
\hline & IBM; \\
\hline & Telena \\
\hline & Mounting plate for modular jack \\
\hline & black \#111115 10 \\
\hline & Indexing dimension (W \(\times \mathrm{H}\) ) approx. \(14 \times 19,3 \mathrm{~mm}\) \\
\hline \multirow[t]{3}{*}{I on page T73} & For data connector housing order no. 1110 .., \\
\hline & Modular jacks: \\
\hline & AMP, order no. 554171 \\
\hline & Mounting plate for modular jack \\
\hline & black 11111610 \\
\hline & Indexing dimension (W x H) approx. \(15 \times 19,3 \mathrm{~mm}\) \\
\hline \multirow[t]{17}{*}{I on page T73} & \begin{tabular}{l}
For data connector housing order no. 1110 .., 1115 02, 1119 .., 1126 .., 425615 \\
For modular jack order no. 1829, 1833
\end{tabular} \\
\hline & Modular jacks: \\
\hline & Asyco; \\
\hline & Dätwyler; \\
\hline & Dr. Ing. Sieger; \\
\hline & Drivex; \\
\hline & EFB Electronic; \\
\hline & Erni; \\
\hline & Hubbell; \\
\hline & Intracom; \\
\hline & Radiall; \\
\hline & Setec; \\
\hline & LANmark 5, 6 and 7 (only with with Keystone-Clip): Nexans; \\
\hline & Keystone Jack: \\
\hline & Leoni Kerpen; \\
\hline & ELine 600 GG45 jacks: \\
\hline & Leoni Kerpen \\
\hline
\end{tabular}

Order no.
Packing
unit


I on page T73 1115 02, 1119 .., 1126 .., 425615

Modular jacks:
AMP, order no. 554908, 554909



Mounting plate for \(2 x\) fibre-optic couplings
black 111221

I on page 773
1115 02, 1119 .., 1126 .., 425615
Fibre-optic couplings:
Ackermann;
AMP;
Brand-Rex;
BTR;
CobiNet;
Diamond;
Drahtex;
FiberCraft;
Huber+Suhner;
Krone;
Quante;
Telegärtner
Connectors for cold condition
Mounting plate for plug/jack for cold

conditions
black \#1111 21

Only for jack for cold conditions with screw terminals.
I on page T73 For data connector housing order no. 1110 ..,
1115 02, 1119 .., 1126 .., 425615

Non-heating appliance plugs/jacks:
Conrad Electronic;
Farnell;
RS Components

General Terms and Conditions of Business
(status 3/04)
(on the basis of the ZVEI e.V.
recommendation on conditions)
1. General provisions
The written declarations by both parties are deemed authoritative in respect of the scope of the deliveries or services (hereinafter Deliveries). In addition these General Terms and Conditions of Business apply. General terms and conditions of the Buyer shall only apply insofar as the Supplier or the party rendering the service (hereinafter Supplier) has expressly approved of such conditions in writing. In other respects the regulations of Verbofar as they are tektrotechniker apply in respect of the safety of deliveries or services.

These General Terms and Conditions of Business also apply to all future transactions with the Buyer

The Supplier reserves unrestricted ownership and copyright utilisation rights to cost estimates, drawings and other offer documents (hereinafter Documents). These may not be made available to third parties without approval by the Supplier and on request they is not placed This applies accordingly to the is not placed. This applies accordingly to the Buyer's doilate third parties to whom be Supplier is permitted and intends to assign deliveries.

The Buyer enjoys the non-exclusive right to use standard and individual software with the agreed performance factors in an unalte red form on the agreed equipment.
The Buyer may not assign or make this soft ware available to third parties for use Partial deliveries are permitted. In the case of order-related production, excess or short
deliveries in each case of \(10 \%\) are permitted

\section*{2. Securities}

The Buyer's creditworthiness is the prerequisite for an obligation to deliver. As a general rule the Supplier is entitled to demand advance payments, securities or cash payments insofar as it considers this necessary, honouring its payment obligations, or if it does not answer questions regarding its creditworthiness, the Supplier reserves the right to withdraw from the contract and, if applicable, demand claims for damages as a result of non-performance. In such cases goods that have already been delivered are to be returned to the Supplier in their origi nal condition. Furthermore in the event of enforcement by writ in respect of the Buyer' assets, compositiotion of business proceeor the transfor of a business as well or the transfer of a business as well as shall fall due without delay. shall Supplier is to be inform of any considerable deterioration in the financial position (e.g. enforcement by wit, discontinuation of payment, composition, bankruptcy, discontinuation of business ope rations, the transfer of a business, seizure or the transfer of goods, inventories or outstanding items as a guarantee).

\section*{3. Delivery periods}

Details in the confirmation of order are aut horitative in respect of the delivery period. Adherence to the period is conditional on the licences and releases to be obtained by licences and releases to be obtained by the Buyer; self-deliveries; adherence to the
terms of payment specified by the Supplier and other obligations. The period shall be extended accordingly if these basic require ments are not met in good time

The period is deemed adhered to if the goods have been dispatched, or collected within the agreed delivery period. If the delivery is delayed for reasons for which the Buyer is responsible, the time agreed upon shall be deemed complied with on notifica tion of the readiness to dispatch If the non-adnerence to the period for dell veries is proven to be attributable to force majeure, industrial disputes or unforeseeab accordingly.

In the event that the agreed or extended delivery period is not adhered to, the Buyer mufferef insorar as it furnishes proof that it has demed damage as a result of the delay, demand compensation for delayed perfor mance for each full week of delay from to a total of \(5 \%\) of the value of th
the delivery that is delivered late.
Further-reaching claims for compensation on the part of the Buyer are excluded. This does not apply insofar as mandatory liability
applies in cases of intent or gross negligence. This shall not affect the Buyer's right ble extension granted to the Supplier

\section*{4. Passing of risk}

Risk shall also pass to the Buyer in the case of a carriage-paid delivery if the goods have been dispatched or collected. Shipping shall be carried out according to the Buyer's instructions or according to the Supplier's best judgement without responsibility for the most cost-effective forwarding. At the request, and cost, of the Buyer, the Supplier shal insure the consignment against customary
transport risks. If the shipping is delayed a the Buyer's request, or for reasons for which the Buyer's request, or for reasons for which to the Buyer from the day on which the to the Buyer from the day on which the the Supplier shall be under obligation to bring about the insurance policies requested by Buyer at the Buyer's cost.
goods are taken back, the Buyer shall bear the risk up to the receipt at the Supplier's premises.

\section*{5. Reservation of title}

The delivery items (reserved goods) shall emain the Supplier's property until all the claims against the Buyer to which it is met. Prior to this pledging association are transfer by way of security are prohibited.

The Buyer may only sell the reserved goods, regardless of their condition, to resellers duri ng the ordinary course of business subject to the proviso that it is not in arrears with payments due to the Supplier and that it assign to the Supplier at this point in time claims, ncluding all accessory rights, to which it is entitled from such a sale. The assignment of such claims is restricted to the amount of all the claims to which the Supplier is entitled resulting from the business association. The Buyer is also entitled to collect these claims following such an assignment. This shall not affect the Supplier's authority to collect such claims. On request the Buyer is to debtors in relation to the assigned claims, debtors in relab to the assigned claims, delay all documents required for collection and to inform the debtor in writing of the assignment.

Treating and finishing the reserved goods shall by carried on behalf of the Supplier without the Supplier being under obigation. If the goods are combined or blended with other items, the Buyer shall assign to the Supplier at this point in time its property or co-ownership rights to the new items. It shal store these with commercial diligence on behalf of the Supplier. In the event of a sale to the Supplier its claims and acossory oo the Supplier ts claims and accessory sake If the Buyer finishes the goods with other goods that are not the Supplier's property, the Supplier shall be entitled to part-ownership of the new item in proportion of the value of the reserved goods.

In the case of conduct on the part of the Buyer in breach of contract, in particular in the case of default in payment, the Supplier shall be entitled to take back the reserved goods. At the Supplier's request the Buyer shall be under obligation to surrender without delay. Taking goods back and the seizure of the reserved goods by the
Supplier do not constitute any kind of declaration of withdrawal.

The Buyer is to undertake all the necessary measures at its own cost to avoid a detrimental effect on or the loss of the rights to the delivered goods to which the Suppler is the Supplir Buyer is to ward off or infor zure or other intervention by third parties. The Buyer shall be responsible for possible disadvantages it suffers as a result of it not observing this obligation.

\section*{6. Prices}

The prices are stated in euros. They are ex works prices and exclude packaging and statutory value added tax.

In the case of goods purchased in a single order in excess of \(€ 1,000.00\) we shal deliver free of charge, carriage paid, to the receiving station excluding packaging n the case of such an order in excess of carriage-paid, to the receiving station including packaging
7. Terms and conditions of payment Payments are to be effected within 30 day from the date of invoice without any deduction ex paying agent of the Supplier. A trade
discount of \(2 \%\) shall be granted in the case
of payment within 10 days following the date of invoice. Payment arrears or payment by biil of exchange rule out the deduction accepted subject to the customary reserva tions, while bills of exchange shall only be accepted following a special agreement and f they comply with the acquisition conditions of the European Central Bank (ECB) Discount charges, fees and tax on notes and bills of exchange shall be borne by the Buyer. These are to be paid upon issuing he bill of exchange to the Supplier. In the case of all kinds of payment the day of perthe Supplier can dispose of the amount.

In the event that the term of payment is xceeded, or the delivery is delayed, at once the goods are ready for dispatch, the Supplier shall be entitled, without th necessity of issuing a special warning, to charge interest on arrears of 3\% p.a. above the respective main refinancing rate of the ECB as from the due date, at least, however, amounting in each case to the interest rates charged by major Rhine-Westphalian banks or unsecured credits. The Supplier reserves the right to assert a claim on the grounds of greater damage. In other respects in the
case of default in payment the Supplier shall en en-
titled to demand the surrender of the good and claim for

The Buyer may only set off undisputed or res udicata claims against the Supplier's claims.

\section*{. Liability for defects}

The Supplier guarantees that the sold goods do not contain defects at the time of the passing of risk. Insofar as parts proven to have been procured from the Supplie contained defects prior to the passing of risk, the Supplier shall be liable to the Buyer as follows:
1. The Buyer shall only be entitled to the warranty rights below if it has met in a notice of defects incumbent upon the Buye by way of written notification of the identified defects, and it has returned to the Supplier the goods for which a complaint has been lodged. 2. All the parts or services whose usefulness
s considerably impaired within 12 months, without consideration given to the operating period, calculated from the day on which the risk passes, as a result of an incident prior to the passing of risk, are to be subsequently mproved at the Supplier's discretion free o charge, or new ones are to be supplied or
new services are to be rendered.
3. If the Buyer provides notification of defects in relation to the delivered goods or service, this shall only constitute a right defect is res judicata or is not disputed the Supplier. In this respect the retained payment must be commensurate with the respective faults.
4. The Buyer is to use its reasonable discretion to grant the Supplier appropriate time and opportunity to rectify defects. If it re uses to do this the Supplier shall be re eased from the liability for defects.
5. If the Supplier allows a reasonable extension granted to the Supplier to lapse without ectifying the defect, or if the subsequent refuses this, the Buyer may assert a right to reduce the purchase price. The Buyer may also demand conversion if an agreement \(h\) respect of abatement is not reached between the Buyer and Supplier.
. The Buyer's right to assert claims resulting from defects shall in any case fall under the statute of limitations in 6 months from the ime of notification of defects. However, this shall not be before the warranty has elapsed If no agreement is reached within this period the Supplier and Buyer may agree upon an
extension of this period of limitation.
7. The liability for defects does not apply to natural wear-and-tear and furthermore not of risk as a result of faulty or negligent treatment, excessive or improper use, unsuitable operating resources, faulty construction work and similar external influences that were not presupposed as per agreement, and non reproducible software faults. If the Supplier is rendered liable for damage as a oint debtor by a third party for one of these reasons, the Buyer irrevocably assumes the ability at this point in time by way of internal arrangements.
If the Buyer or third parties carry out impro
per alterations or repair work, no warranty shall apply to these and the consequences resulting from them.
8. The warranty period for subsequen months. It shand replacement deliveries is he warranty period for the goods for which a complaint has been lodged.
9. Further-reaching claims on the part of the Buyer against the Supplier and its vicarious agents are excluded, in particular claims for ompensation of damage not caused to en mandator liablit ap in as mandatory liability apples in accorda restriction in accordance with sub-sect estriction in accordance with sub-section 7, ack of warranted characteristics
10. All kinds of liability are excluded in the case of defects in software products. It is expressly stated that no warranty is provided or functions, suitability, usefulness, non violation or other expected characteristics. Accordingly liability for any kind of damage or consequential damage caused by the software in respect of the user or third pares is excluded. If mandatory legal norms do not allow for this comprehensive exemption shall nevertheless remain in place for all other cases.

\section*{9. Industrial property rights, copyrights 1. Insofar as a third party lodges justified} claims against the Buyer as a result of violation of an industrial property right /copyrigh hereinafter Copyrights) by way of product agreement, the Supplier shall be liable to the Buyer as follows:
a) The Supplier shall, at its own discretion, bring about a utilisation right for the product, alter the product or replace it or if this is not possible under reasonable conditions take back the product subject to reimbursemen claims against the Supplier are excluded. The aforementioned obligation of the b) The agr shall only apply if the Buy info supplier shall only apply ine Buyer informs odged by third parties; does not recog a violation of industrial property rights, and the Supplier is reserved the right to conduct all defensive measures and hold composition negotiations.
2. Claims by the Buyer shall be excluded insofar as it is responsible for the violation of an industrial property right or if such a violati on is caused by the Buyer's special parameers or unforeseeable application or alteration or blending with other products.

\section*{10. Impossibility, contractual adjustmen} . If it becomes impossible for the Supplier Supplier for reasons, which are its responsiSility, the Buyer shal be entitled to request as compensation up to \(10 \%\) of the valuest the products that have not been delivered
2. Insofar as events outside the Supplier's sphere of influence considerably change the economic significance or the content of the delvery, of have an effect on the Supplier's operations, the Supplier shall be entitled to contact in agreement with the Buyer.

\section*{11. Other claims for damages}

The following claims for damages lodged
 grounds of a positive breach of contract, viol negotiations and on the basis of ulawful acts. This does not apply insofar as mandatory liability applies by law, in particular in the case of intent, gross negligence and the lack of warranted characteristics.
12. Place of jurisdiction

Hagen i.W. is deemed the place of general urisdiction for all disputes resulting directly or indirectly from the contractual relationship. German law applies to the contractual relations. The Hague Convention of 01.07.1964 and the UN Sales Convention of 11.04.1980 shall not be applied

\section*{Instructions for cleaning and care}

Clean by wiping the surfaces with a moist, soft, lint-free cloth.
In the case of heavy dirt we recommend using a diluted household cleaning agent containing soap. Glass and aluminium surfaces can be cleaned using common glass cleaners.

For heavy dirt on stainless steel surfaces, special cleaners such as "Surface Shield" and "Chromol" are preferable. Please observe the instructions for use of the cleaning material, as it may not be suitable for use with plastics or fine metallic surface finishes.

Abrasives and polishes, acid-based (scale removing) detergents and detergents containing chlorine will generally damage all surfaces. Moreover, painted/lacquered surfaces must not come into contact with detergents that contain alcohol.


\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Order no. & Packing & Page & \multicolumn{2}{|l|}{Order no. \(\begin{array}{r}\text { Packing } \\ \text { unit }\end{array}\)} & Page & \multicolumn{2}{|l|}{\[
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& \text { Order no. } \quad \begin{aligned}
\text { Packing } \\
\text { unit }
\end{aligned}
\end{aligned}
\]} & Page & \multicolumn{2}{|l|}{Order no. \(\quad \begin{array}{r}\text { Packing } \\ \text { unit }\end{array}\)} & Page \\
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\hline 012410 & 1 & 325 & 0911512509 & 10 & 439 & 0928762501 & 1 & 450 & 0941952505 & 10 & 442 \\
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\hline 0155 & 1 & 321 & 0918192515 & 2 & 438 & 0936532505 * & 10 & 450 & 0945192501 & 10 & 446 \\
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\hline 018209 & 1 & 326 & 0918272524 * & & 438 & 0936572524 * & 10 & 448 & 0947782503 * & 10 & 442 \\
\hline 018301 & 1 & 64 & 0918272558 * & & 438 & 0936572568 * & 10 & 448 & 0947782505 & 10 & 442 \\
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\hline 75441129 & 1 & 400 & 75663775 & 1 & 405 & 75900077 & 1 & 61 & 75960002 & 1 & 383 \\
\hline 75441142 & 1 & 412 & 75663780 & 1 & 391 & 75900077 & 1 & 376 & 75960003 & 1 & 412 \\
\hline 75441143 & 1 & 412 & 75663785 & 1 & 391 & 75900080 & 1 & 421 & 75960004 & 1 & 412 \\
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Good design is one thing. Outstanding design is something else entirely. When one's design is assessed, judged and, after extensive testing, awarded prizes by several independent expert juries simultaneously, it does make one a little proud - we should know. After all, Berker has won no less than 50 design prizes, both

\section*{AWARDS}


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[^0]:    ${ }^{1}$ Typ. up to approx. $50 \%$ of the output brightness

[^1]:    I on page T6

    Labelling field height arranged for 9 mm P-touch strips.

[^2]:    ■ on supporting plate without cut-out
    ■ centre plate plug-in fixing

[^3]:    - for combination mounting

    ■ with polar white plastic base

    - toughened glass

[^4]:    For activation via a relay or other system we recommend operating the white LEDs using the factory setting, i.e. the LEDs light up for as long as the push-button is pressed and acknowledge that the connected system has received a pulse.

