CATALOGUE INDUSTRY

Berker

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THE TRUE QUALITY OF A PRODUCT CAN BE DETECTED IN ITS FINER DETAILS.

Practical functionality; excellent reliability; timeless design; extreme ease of installation – all the things that make Berker switches and systems perfect for installation in buildings are also the qualities that make them ideal for integration in electrical goods, vehicles, and numerous other applications.

That's why many furniture makers, vehicle engineers, shipbuilders, producers of electrical appliances, and other manufacturers choose switches from Berker's industrial range.

We use a special distribution channel for this range of products. Berker industrial switches are all distributed directly, rather than via electrical wholesalers.

If you are interested in switches from the Berker industrial range, please call +49 (0) 2355 905 211 or email vi.info@berker.de.

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IDEAS, PERFECTION, BUT ABOVE ALL A PASSION FOR EXCELLENT DESIGN: BERKER – THE RIGHT WAY.

No product is better in the long term than the sum of its constituent parts. Or, seen from another perspective: you can recognise an outstanding product from its outstanding components. As you can in Berker's switches and systems, for example. Since 1919 we have been producing high-quality switches and building systems that are techno¬logically cutting-edge, extremely reliable, have been awarded numerous prizes, and are the products of choice for a number of well-known manufacturers. So it is no coincidence that Berker electrical installations can be found today in many successful products and premium buildings. Perhaps in yours soon, too.

B.
Berker

BERKER INTEGRO

Industrial switch system
Built-in system

The Berker Integro switch program satisfies the most rigorous requirements: Modern design variants, fast installation, integration of modern communications systems. Moreover the attractive contemporary colours allow great scope for flexible design.

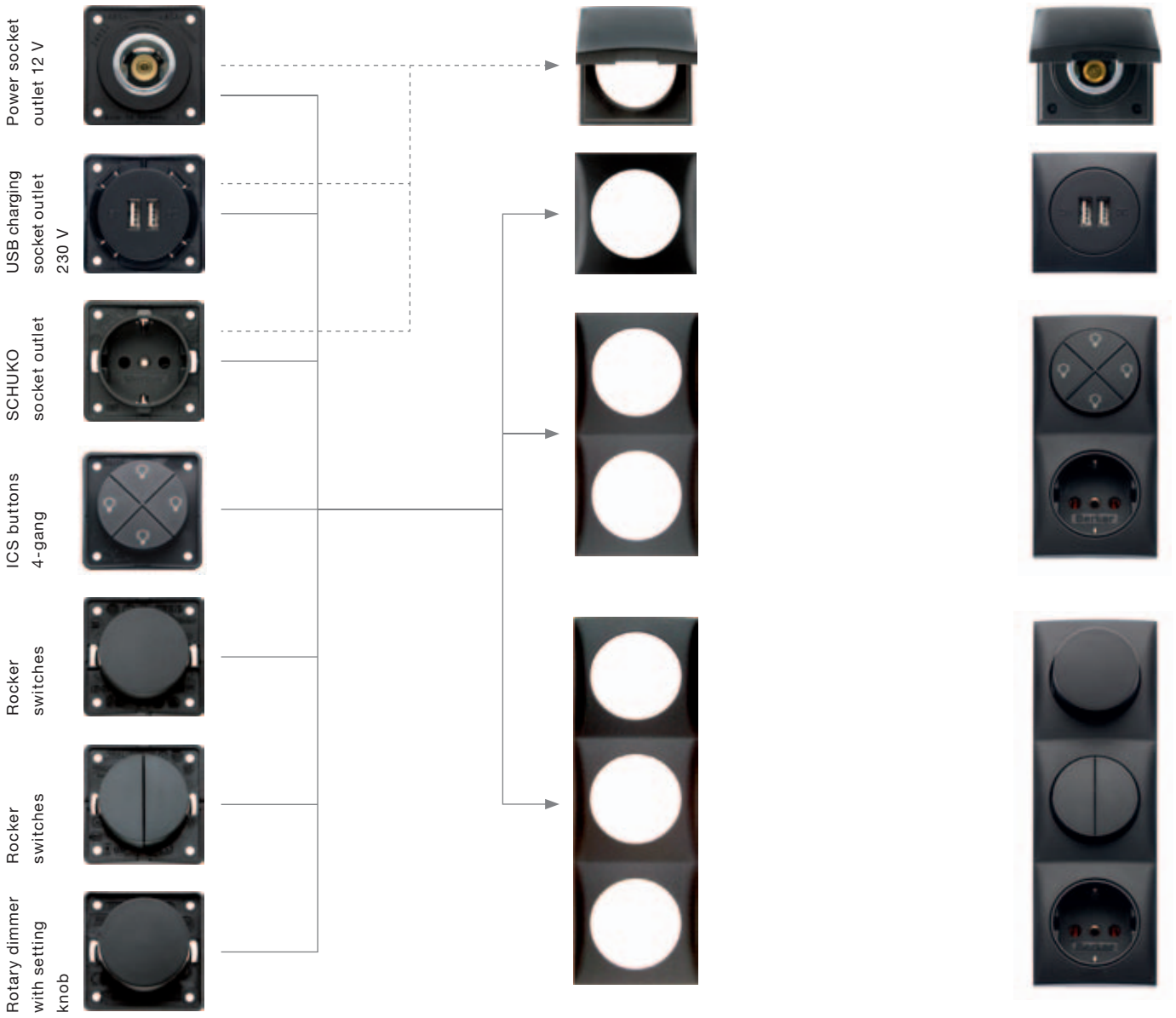
- Ultra-compact construction - particularly suitable for use in mobile homes, kitchen furnishings, electrical appliances, or for furniture construction and the field of sanitation
- Also satisfies special demands such as in boat and ship building, and in laboratories
- Modular product concept
- Installation can be extended with the electronic Integro Control System (ICS)
- Available in three different modern design variants - Integro Flow, Classic and Pure
- Extensive variety of colours
- Individual customer personalisation relative to colours, imprints and materials can be implemented

The Berker Integro switch system consistently follows the modular product concept that is typical for Berker. In this regard the module inserts of Berker Integro have already been complemented with the matching functional cover, such as rocker, setting knob and centre plate. Thus all that remains is to combine a module insert with the frame in the appropriate colour, required execution variant, and with the desired design Integro Classic, Flow or Pure. The complete product is ready.
In addition Berker Integro and the Integro control system are convincing with a product depth that satisfies any requirement. From the simple connection of TV/audio technology to switching of light fixtures, to the intelligent control of multiple light sources including memory functions - with Berker Integro you will find the solution for your requirement.

Find the module insert for the planned application

\+ Select frame variant [1] in the desired design [2]

= Combine to form a complete product [3]



Additional basic variants - module inserts:
- TV/audio and international socket outlets
- Rocker buttons, rocker switches for blinds

Additional frame variants:
- with labelling field
- with lens for control LED
- IP44 with seal

[1] frame 1-gang to 3-gang suitable for vertical or horizontal mounting

[2] Here shown in the INTEGRO FLOW design

[3] Complete products and multi-gang combinations are shown as examples only

The product depth, as well as the function and country variants of Berker Integro are perfectly supplemented by a variety of colour and surface versions. In the overview below the standard colour variants in the high-quality surface structures of the three Integro design lines are presented. Additional colour and surface variants are possible on request.

Colour variant	Surface condition	Similar to RAL hue	Berker Integro FLOW	Berker Integro CLASSIC	Berker Integro PURE
brown	matt	RAL 8017			
anthracite	matt	RAL 7021			
grey	glossy	RAL 7038			
polar white	glossy	RAL 9010			
black	matt	RAL 9005			
black	glossy	RAL 9005			
granite black	silk matt lacquered	RAL 7026			
chrome	matt lacquered	RAL 9006			
chrome	glossy galvanised	RAL 9023			
chrome	matt galvanised	RAL 9006			
gold	glossy galvanised				
stainless steel	lacquered	RAL 9022			
SOCKETS					
red	glossy	RAL 3002			
green	glossy	RAL 6032			
orange	glossy	RAL 2008			

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Switches	21-25
Buttons	25-28
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Pole reversal rocker push-buttons	29-30
Appliance switches	30
Rotary dimmers	30-32
1-10 V Control units	32
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BERKER INTEGRO MODULE INSERTS

Industrial switch system
Built-in system

Very small, but practically indispensible. The round function elements of the module inserts will give any installation unit a distinctive character. Their minimised dimensions and small installation depths mean that they can be used with total flexibility. And their enormous product depths covers a wide variety of functions, offering the optimal solution for every requirement.

- Easy installation without special tool requirements
- Fast mounting thanks to ”SNAP IN“ fitting in the installation apertures
- Special solutions, such as die mounitng in mirrors, on glass or IP44 applications
- Integration of modern communication systems
- Variety of international socket outlet variants
- NEW: The product range has been extended with USB charging socket outlets

✓ Marked items are suitable for installation of splash-protected flush-mounted IP 44 when used in conjunction with appropriate seal and frame with IP44 imprint (see page 35).

SCHUKO SOCKET OUTLETS

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SCHUKO socket outlet with screw terminals

	Order no.	Packing unit
brown, matt	**09 4185 25 01**	10
brown, matt	**08 4185 25 01**	200
anthracite, matt	**09 4185 25 05**	10
anthracite, matt	**08 4185 25 05**	200
grey, matt	**09 4185 25 06**	10
grey, matt	**08 4185 25 06**	200
polar white, matt	**09 4185 25 02**	10
polar white, matt	**08 4185 25 02**	200
black, matt	**09 4185 05**	10
black, matt	**08 4185 05**	200
brown, matt, enhanced contact protection IEC 60884-1	**09 4195 25 01**	10
brown, matt, enhanced contact protection IEC 60884-1	**08 4195 25 01**	200
anthracite, matt, enhanced contact protection IEC 60884-1	**09 4195 25 05**	10
anthracite, matt, enhanced contact protection IEC 60884-1	**08 4195 25 05**	200
grey, matt, enhanced contact protection IEC 60884-1	**09 4195 25 06**	10
grey, matt, enhanced contact protection IEC 60884-1	**08 4195 25 06**	200
polar white, matt, enhanced contact protection IEC 60884-1	**09 4195 25 02**	10
polar white, matt, enhanced contact protection IEC 60884-1	**08 4195 25 02**	200
black, matt, enhanced contact protection IEC 60884-1	**09 4195 05**	10
black, matt, enhanced contact protection IEC 60884-1	**08 4195 05**	200

16 A, 250 V~

For contact protection box Ø 45 mm
order no. 0918 20 02, 0918 20
IP44 protection only guaranteed for installation with sealing order no. 09 1853 and frame with imprint „IP44“ order no. 0918 28 25 68, 0918 28 25 86, 0918 28 25 9.., 0918 28 7.., 0918 28 86, 0918 28 9..
For contact protection box Ø 49 mm
order no. 0918 83, 0918 87 ..
For contact protection box 2gang vertical, deep
order no. 0919 11 ..
For contact protection box 2gang horizontal, deep
order no. 0919 12 ..
For contact protection box 2gang
order no. 0919 15 0..
For contact protection box 3gang order no. 0919 33

Connection terminals IEC 60884-1

■ with screw terminals

NEW

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SCHUKO socket outlet with plug-in terminals

	Order no.	Packing unit
brown, matt	**09 4778 25 01**	10
brown, matt	**08 4778 25 01**	200
anthracite, matt	**09 4778 25 05**	10
anthracite, matt	**08 4778 25 05**	200
grey, matt	**09 4778 25 06**	10
grey, matt	**08 4778 25 06**	200
polar white, matt	**09 4778 25 02**	10
polar white, matt	**08 4778 25 02**	200
black, matt	***09 4778 25 03**	10
brown, matt, enhanced contact protection IEC 60884-1	**09 4779 25 01**	10
brown, matt, enhanced contact protection IEC 60884-1	**08 4779 25 01**	200
anthracite, matt, enhanced contact protection IEC 60884-1	**09 4779 25 05**	10
anthracite, matt, enhanced contact protection IEC 60884-1	**08 4779 25 05**	200
grey, matt, enhanced contact protection IEC 60884-1	**09 4779 25 06**	10
grey, matt, enhanced contact protection IEC 60884-1	**08 4779 25 06**	200
polar white, matt, enhanced contact protection IEC 60884-1	**09 4779 25 02**	10
polar white, matt, enhanced contact protection IEC 60884-1	**08 4779 25 02**	200
black, matt, enhanced contact protection IEC 60884-1	***09 4779 25 03**	10

16 A, 250 V~

Earth bracket clamping forces satisfy TNO requirements.

For contact protection box Ø 45 mm
order no. 0918 20 02, 0918 20
IP44 protection only guaranteed for installation with sealing order no. 09 1853 and frame with imprint „IP44“ order no. 0918 28 25 68, 0918 28 25 86, 0918 28 25 9.., 0918 28 7.., 0918 28 86, 0918 28 9..
For contact protection box Ø 49 mm
order no. 0918 83, 0918 87 ..
For contact protection box 2gang vertical, deep
order no. 0919 11 ..
For contact protection box 2gang horizontal, deep
order no. 0919 12 ..
For contact protection box 2gang
order no. 0919 15 0..
For contact protection box 3gang order no. 0919 33

Connection terminals IEC 60884-1
Standard NEN 1010

■ with plug-in terminals

	Order no.	Packing unit

on page T1

SCHUKO socket outlet 45°

brown, matt	**08 4185 25 21**	200
anthracite, matt	**08 4185 25 25**	200
grey, matt	**08 4185 25 26**	200
polar white, matt	**08 4185 25 22**	200
black, matt	**08 4185 25**	200

16 A, 250 V~

For contact protection box for clamp fastening Ø 58 mm order no. 0818 37 ..
IP44 protection only guaranteed for installation with sealing order no. 09 1853 and frame with imprint „IP44“ order no. 0918 28 25 68, 0918 28 25 86, 0918 28 25 9.., 0918 28 7.., 0918 28 86, 0918 28 9..
For contact protection box Ø 49 mm order no. 0918 83, 0918 87 ..
For contact protection box 2gang order no. 0919 15 0..
For contact protection box 3gang order no. 0919 33

Connection terminals IEC 60884-1

- for diagonal installation
- with screw terminals

SCHUKO socket outlets with „SNAP IN“

on page T1

SCHUKO socket outlet 45° ”SNAP IN“ 1 mm

anthracite, matt	**08 4733 25 05**	200
grey, matt	**08 4733 25 06**	200

16 A, 250 V~
Installation wall thickness 1.0 +/- 0.1 mm

Earth bracket clamping forces satisfy TNO requirements.

Not suitable for wall boxes.

Connection terminals IEC 60884-1
Standard NEN 1010

- for diagonal installation
- with distance sealing ring
- protection IP44 when using frame with hinged cover and imprint IP44
- for catch fixing
- with plug-in terminals

on page T1

SCHUKO socket outlet 45° ”SNAP IN“ 1 mm

grey, matt	**08 4104 25 06**	200

16 A, 250 V~
Installation wall thickness 1.0 +/- 0.1 mm;
Installation depth 32.5 mm

Not suitable for wall boxes.

Connection terminals IEC 60884-1

- contacts made of copper alloy
- duroplast base
- thermoplastic centre plate, matt
- for diagonal installation
- with distance sealing ring
- protection IP44 when using frame with hinged cover and imprint IP44
- for catch fixing
- with screw terminals

	Order no.	Packing unit

on page T1

SCHUKO socket outlet 45° ”SNAP IN“ 1.8 mm

grey, matt	**08 4787 25 06**	200
grey, matt, enhanced contact protection IEC 60884-1	**08 4788 25 06**	200

16 A, 250 V~
Installation wall thickness 1.8 +/- 0.2 mm

Earth bracket clamping forces satisfy TNO requirements.

Not suitable for wall boxes.

Connection terminals IEC 60884-1
Standard NEN 1010

- for diagonal installation
- with distance sealing ring
- protection IP44 when using frame with hinged cover and imprint IP44
- for catch fixing
- with plug-in terminals

on page T1

SCHUKO socket outlet 45° ”SNAP IN“ 1.8 mm

grey, matt	**08 4139 25 06**	200
grey, matt, enhanced contact protection IEC 60884-1	**08 4140 25 06**	200

16 A, 250 V~
Installation wall thickness 1.8 +/- 0.2 mm

Not suitable for wall boxes.

Connection terminals IEC 60884-1

- for diagonal installation
- with distance sealing ring
- protection IP44 when using frame with hinged cover and imprint IP44
- for catch fixing
- with screw terminals

	Order no.	Packing unit

on page T1

SCHUKO-socket outlet 45° „SNAP IN“ 2 mm with indicator LED

anthracite, matt	**09 4713 25 05**	200
grey, matt	**09 4713 25 06**	200
polar white, matt	**09 4713 25 02**	200
red, matt	**09 4713 25 76**	200
green, matt	**09 4713 25 03**	200
orange, matt	**09 4713 25 04**	200

16 A, 250 V~
LED current 1 mA;
Installation wall thickness 2.0 +/- 0.15 mm

Earth bracket clamping forces satisfy TNO requirements.

Not suitable for wall boxes.

For frame 1gang with labelling field and lens top left order no. 0819 70 25 ..
For frame 1gang with labelling field and lens top right order no. 0819 77 25 ..
For frame 1gang with lens order no. 0919 87 25 ..
For frame 1gang with hinged cover and labelling field order no. 0919 88 25 0..

Connection terminals IEC 60884-1
Standard NEN 1010

- enhanced contact protection VDE 0620-1
- for diagonal installation
- for catch fixing
- with plug-in terminals
- with distance sealing ring

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SCHUKO socket outlet 45° ”SNAP IN“ 2.8 mm

grey, matt, enhanced contact protection IEC 60884-1	**08 4731 25 06**	200

16 A, 250 V~
Installation wall thickness 2.8 +/- 0.2 mm

Earth bracket clamping forces satisfy TNO requirements.

Not suitable for wall boxes.

Connection terminals IEC 60884-1
Standard NEN 1010

- for diagonal installation
- with distance sealing ring
- protection IP44 when using frame with hinged cover and imprint IP44
- for catch fixing
- with plug-in terminals

SOCKET OUTLETS WITH EARTH CONTACT

NEMA-socket outlets

on page T1

Socket outlet with earth contact, USA/ CANADA, NEMA 5-15 R

brown, matt	***09 6252 25 01**	10
anthracite, matt	**09 6252 25 05**	10
grey, matt	***09 6252 25 06**	10
polar white, matt	**09 6252 25 02**	10
black, matt	**09 6252 05**	10

15 A, 125 V~

For contact protection box Ø 45 mm order no. 0918 20 02, 0918 20
For contact protection box Ø 49 mm order no. 0918 83, 0918 87 ..
For contact protection box 2gang vertical, deep order no. 0919 11 ..
For contact protection box 2gang horizontal, deep order no. 0919 12 ..
For contact protection box 2gang order no. 0919 15 0..
For contact protection box 3gang order no. 0919 33

Equates to standard NEMA 5-15 R

- 2pole + earth
- with fast-on terminal connection
- protective earth conductor with screw connection
- insert, black

Australian socket outlets

on page T1

Socket outlet with earth contact, Australia 10 A

brown, matt	***09 6258 25 01**	10
anthracite, matt	**09 6258 25 05**	10
grey, matt	***09 6258 25 06**	10
polar white, matt	**09 6258 25 02**	10
black, matt	**09 6258 05**	10

10 A, 250 V~

For contact protection box Ø 45 mm order no. 0918 20 02, 0918 20
For contact protection box Ø 49 mm order no. 0918 83, 0918 87 ..
For contact protection box 2gang vertical, deep order no. 0919 11 ..
For contact protection box 2gang horizontal, deep order no. 0919 12 ..
For contact protection box 2gang order no. 0919 15 0..
For contact protection box 3gang order no. 0919 33

- 2pole + earth
- contact screws, cross-head, size PH2
- with screw terminals
- insert, black

	Order no.	Packing unit

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Socket outlet with earth contact, Australia 15 A

brown, matt, insert black	**09 6256 25 01**	10
anthracite, matt, insert black	**09 6256 25 05**	10
grey, matt, insert black	**09 6256 25 06**	10
polar white, matt, insert white	**09 6256 25 02**	10
black, matt, insert black	**09 6256 05**	10

15 A, 250 V~

For contact protection box Ø 45 mm order no. 0918 20 02, 0918 20
For contact protection box Ø 49 mm order no. 0918 83, 0918 87 ..
For contact protection box 2gang vertical, deep order no. 0919 11 ..
For contact protection box 2gang horizontal, deep order no. 0919 12 ..
For contact protection box 2gang order no. 0919 15 0..
For contact protection box 3gang order no. 0919 33

- 2pole + earth
- contact screws, cross-head, size PH2
- with screw terminals

Danish socket outlets

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Socket outlet with earth contact, Denmark

brown, matt	**09 6272 25 01**	10
anthracite, matt	**09 6272 25 05**	10
grey, matt	**09 6272 25 06**	10
polar white, matt	**09 6272 25 02**	10
black, matt	**09 6272 05**	10

13 A, 250 V~

For contact protection box Ø 45 mm order no. 0918 20 02, 0918 20
For contact protection box Ø 49 mm order no. 0918 83, 0918 87 ..
For contact protection box 2gang vertical, deep order no. 0919 11 ..
For contact protection box 2gang horizontal, deep order no. 0919 12 ..
For contact protection box 2gang order no. 0919 15 0..
For contact protection box 3gang order no. 0919 33

Standard DK/SR 107-2-D1
Connection terminals IEC 60884-1

- 2pole + earth
- enhanced contact protection IEC 60884-1
- with screw terminals

Italian socket outlets

on page T1

Socket outlet with earth contact, Italy

brown, matt	**09 6253 25 01**	10
anthracite, matt	**09 6253 25 15**	10
grey, glossy	**09 6253 25 17**	10
polar white, glossy	**09 6253 25 09**	10
black, matt	**09 6253 15**	10

16 A, 250 V~

Not suitable for fixing ring.

For contact protection box Ø 49 mm order no. 0918 83, 0918 87 ..
For contact protection box 2gang order no. 0919 15 0..
For contact protection box 3gang order no. 0919 33

- 2pole + earth
- enhanced contact protection IEC 60884-1
- insert white
- with screw terminals

Swiss socket outlets

on page T1

Socket outlet with earth contact, Switzerland, type 13

brown, matt	**09 6249 25 01**	10
anthracite, matt	**09 6249 25 05**	10
grey, matt	**09 6249 25 06**	10
polar white, matt	**09 6249 25 02**	10
black, matt	**09 6249 05**	10

10 A, 250 V~

Not suitable for fixing ring.

For contact protection box Ø 49 mm order no. 0918 83, 0918 87 ..
For contact protection box 2gang order no. 0919 15 0..
For contact protection box 3gang order no. 0919 33

Connection terminals IEC 60884-1

- 2pole + earth
- with screw terminals

NEW

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Socket outlet with earth contact, Switzerland, type 23

brown, matt	***09 6259 25 01**	10
anthracite, matt	***09 6259 25 05**	10
grey, matt	***09 6259 25 06**	10
polar white, matt	***09 6259 25 02**	10
black, matt	***09 6259 25 03**	10

16 A, 250 V

Not suitable for fixing ring.

For contact protection box Ø 49 mm order no. 0918 83, 0918 87 ..
For contact protection box 2gang order no. 0919 15 0..
For contact protection box 3gang order no. 0919 33

Connection terminals IEC 60884-1

- 2pole + earth
- with screw terminals

	Order no.	Packing unit

British Standard socket outlets

on page T1

Socket outlet with earth contact, British Standard

	Order no.	Packing unit
brown, matt	**09 6262 25 01**	10
brown, matt	**08 6262 25 01**	200
anthracite, matt	**09 6262 25 05**	10
anthracite, matt	**08 6262 25 05**	200
grey, matt	**09 6262 25 06**	10
grey, matt	**08 6262 25 06**	200
polar white, matt	**09 6262 25 02**	10
polar white, matt	**08 6262 25 02**	200
black, matt	**09 6262 05**	10
black, matt	**08 6262 05**	200

13 A, 250 V~

For contact protection box Ø 45 mm order no. 0918 20 02, 0918 20
For contact protection box Ø 49 mm order no. 0918 83, 0918 87 ..
For contact protection box 2gang vertical, deep order no. 0919 11 ..
For contact protection box 2gang horizontal, deep order no. 0919 12 ..
For contact protection box 2gang order no. 0919 15 0..
For contact protection box 3gang order no. 0919 33

Standard BS 1363

- 2pole + earth
- enhanced contact protection
- with screw terminals

SOCKET OUTLETS WITH EARTH PIN

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Socket outlet with earth pin

	Order no.	Packing unit
brown, matt	**09 6185 25 01**	10
brown, matt	**08 6185 25 01**	200
anthracite, matt	**09 6185 25 05**	10
anthracite, matt	**08 6185 25 05**	200
grey, matt	**09 6185 25 06**	10
grey, matt	**08 6185 25 06**	200
polar white, matt	**09 6185 25 02**	10
polar white, matt	**08 6185 25 02**	200
black, matt	**09 6185 05**	10
black, matt	**08 6185 05**	200
brown, matt, enhanced contact protection IEC 60884-1	**09 6195 25 01**	10
brown, matt, enhanced contact protection IEC 60884-1	**08 6195 25 01**	200
anthracite, matt, enhanced contact protection IEC 60884-1	**09 6195 25 05**	10
anthracite, matt, enhanced contact protection IEC 60884-1	**08 6195 25 05**	200
grey, matt, enhanced contact protection IEC 60884-1	**09 6195 25 06**	10
grey, matt, enhanced contact protection IEC 60884-1	**08 6195 25 06**	200
polar white, matt, enhanced contact protection IEC 60884-1	**09 6195 25 02**	10
polar white, matt, enhanced contact protection IEC 60884-1	**08 6195 25 02**	200
black, matt, enhanced contact protection IEC 60884-1	**09 6195 05**	10
black, matt, enhanced contact protection IEC 60884-1	**08 6195 05**	200

16 A, 250 V~

For contact protection box Ø 45 mm order no. 0918 20 02, 0918 20
IP44 protection only guaranteed for installation with sealing order no. 09 1853 and frame with imprint „IP44“ order no. 0918 28 25 68, 0918 28 25 86, 0918 28 25 9.., 0918 28 7.., 0918 28 86, 0918 28 9..
For contact protection box Ø 49 mm order no. 0918 83, 0918 87 ..
For contact protection box 2gang vertical, deep order no. 0919 11 ..
For contact protection box 2gang horizontal, deep order no. 0919 12 ..
For contact protection box 2gang order no. 0919 15 0..
For contact protection box 3gang order no. 0919 33

Connection terminals IEC 60884-1

- 2pole + earth
- with screw terminals

SOCKET OUTLETS WITHOUT EARTH CONTACT

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Socket outlet without earth contact

	Order no.	Packing unit
brown, matt	**09 6184 25 01**	10
anthracite, matt	**09 6184 25 05**	10
grey, matt	**09 6184 25 06**	10
polar white, matt	**09 6184 25 02**	10
black, matt	**09 6184 05**	10
brown, matt, enhanced contact protection IEC 60884-1	**09 6194 25 01**	10
anthracite, matt, enhanced contact protection IEC 60884-1	**09 6194 25 05**	10
grey, matt, enhanced contact protection IEC 60884-1	**09 6194 25 06**	10
polar white, matt, enhanced contact protection IEC 60884-1	**09 6194 25 02**	10
black, matt, enhanced contact protection IEC 60884-1	**09 6194 05**	10

16 A, 250 V~
Mirror depth 14.5 mm

For contact protection box Ø 45 mm order no. 0918 20 02, 0918 20
For contact protection box Ø 49 mm order no. 0918 83, 0918 87 ..
For contact protection box 2gang vertical, deep order no. 0919 11 ..
For contact protection box 2gang horizontal, deep order no. 0919 12 ..
For contact protection box 2gang order no. 0919 15 0..
For contact protection box 3gang order no. 0919 33

Connection terminals IEC 60884-1

- 2pole
- with screw terminals

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Socket outlet without earth contact „Euro-American Standard“

	Order no.	Packing unit
brown, matt	**09 6257 25 01**	10
anthracite, matt	**09 6257 25 05**	10
grey, matt	**09 6257 25 06**	10
polar white, matt	**09 6257 25 02**	10
black, matt	***09 6257 25 03**	10

10 A, 250 V~

Not suitable for SCHUKO connector according to DIN 49441.

For contact protection box Ø 45 mm order no. 0918 20 02, 0918 20
For contact protection box Ø 49 mm order no. 0918 83, 0918 87 ..
For contact protection box 2gang vertical, deep order no. 0919 11 ..
For contact protection box 2gang horizontal, deep order no. 0919 12 ..
For contact protection box 2gang order no. 0919 15 0..
For contact protection box 3gang order no. 0919 33

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

CONNECTING DEVICES 12 V

12 V socket outlets

Socket outlet 12 V

	Order no.	Packing unit
brown, matt	**09 4517 25 01**	10
anthracite, matt	**09 4517 25 05**	10
grey, glossy	**09 4517 25 07**	10
polar white, glossy	**09 4517 25 09**	10
black, matt	**09 4517 05**	10

12 - 24 V
Rated current max. 16 A;
fast-on terminal size 6.3 x 0.8 mm

Note:
use of plug 12 V (order no. 4637) observe max. rated current of 8 A.
For plug 12 V order no. 4637
For contact protection box Ø 45 mm order no. 0918 20 02, 0918 20
For contact protection box Ø 49 mm order no. 0918 83, 0918 87 ..
For contact protection box 2gang vertical, deep order no. 0919 11 ..
For contact protection box 2gang horizontal, deep order no. 0919 12 ..
For contact protection box 2gang order no. 0919 15 0..
For contact protection box 3gang order no. 0919 33

- with fast-on terminal connection

	Order no.	Packing unit

NEW

Power socket outlet 12 V

brown, matt	*08 4571 25 01	200
anthracite, matt	*08 4571 25 05	200
grey, glossy	*08 4571 25 07	200
polar white, glossy	*08 4571 25 09	200
black, matt	*08 4571 25 03	200

12 - 24 V, max. 20 A at 2.5 mm², max. 15 A at 1.5 mm²

Not suitable for wall boxes.

- with fast-on terminal connection

Plug 12 V

black, matt	4637	10

12 - 24 V, max. 8 A

For 12 V socket outlet order no. 0945 17 25 .., 0945 17 05

- with solder connection

CHARGING SOCKETS

USB charging sockets

NEW

230 V USB charging socket

anthracite, matt	*09 2600 25 05	1
polar white, matt	*09 2600 25 09	1

100 - 240 V~, 50/60 Hz
Output voltage 5 V= (+/- 5%);
Output current max. 500 mA;
Power consumption (standby) max. 100 mW;
Conductor cross-section max. 2.5 mm²

No data transmission possible!

For contact protection box Ø 49 mm order no. 0918 83, 0918 87 01
For contact protection box 2gang order no. 0919 15 0..
For contact protection box 3gang order no. 0919 33

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

NEW

12 V USB charging socket

brown, matt	*09 2601 25 01	1
anthracite, matt	*09 2601 25 05	1
grey, glossy	*09 2601 25 07	1
polar white, glossy	*09 2601 25 09	1
black, matt	*09 2601 25 03	1

10 - 14 V=
Output voltage 5 V= (+/- 5%);
Output current max. 1000 mA;
Power consumption (standby) max. 100 mW

No data transmission possible!
Only suitable for contact protection boxes order no. 0918 87 .., 0918 83, 0919 15 0.., 0919 33

- with USB socket type A
- for charging mobile end devices via USB cable
- pre-assembled with connecting cables (red, black), length approx. 15 cm
- short-circuit and overload proof (electronic fuse)

TV/MULTIMEDIA

Aerial sockets

NEW

Aerial connector box TV

brown, matt, with solder connection	09 4511 25 11	10
anthracite, matt, with solder connection	09 4511 25 15	10
grey, matt, with solder connection	09 4511 25 16	10
polar white, matt, with solder connection	09 4511 25 12	10
black, matt, with solder connection	09 4511 15	10
brown, matt, with connection in F system	09 4581 25 01	10
anthracite, matt, with connection in F system	09 4581 25 05	10
grey, matt, with connection in F system	09 4581 25 06	10
polar white, matt, with connection in F system	09 4581 25 02	10
black, matt, with connection in F system	*09 4581 25 03	10

DIN 45325

Aerial connector box SAT

brown, matt	09 4519 25 01	10
anthracite, matt	09 4519 25 05	10
grey, matt	09 4519 25 06	10
polar white, matt	09 4519 25 02	10
black, matt	09 4519 05	10

- with double F-socket

	Order no.	Packing unit

NEW

Aerial connector box radio/SAT

brown, matt	**09 4560 25 01**	10
anthracite, matt	**09 4560 25 05**	10
grey, matt	***09 4560 25 06**	10
polar white, matt	**09 4560 25 02**	10
black, matt	**09 4560 05**	10

- with IEC and F socket
- with connection in F system

Aerial connector box TV/radio

polar white, matt	**09 4561 25 02**	10

- with IEC sockets
- with connection in F system

Aerial connector box TV/SAT

grey, matt	**08 4563 25 06**	200
black, matt	**08 4563 25 03**	200

- with IEC and F socket
- with connection in F system

Multimedia socket outlets

NEW

Cinch socket outlet 3gang

brown, matt	***08 4580 25 01**	200
anthracite, matt	***08 4580 25 05**	200
grey, matt	***08 4580 25 07**	200
polar white, matt	***08 4580 25 09**	200
black, matt	***08 4580 25 03**	200

- 2 cinch double jacks for audio connection (red, white)
- 1 cinch double jack for video connection (yellow)

AUDIO/VIDEO MODULES

Cinch module set audio

polar white/red **1989** 1

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 x 18 x 35 mm

on page T2

Supporting plate order no. 0945 59 ..

- with 2 Cinch sockets and module carriers
- with tool free cutting terminals

Cinch module video

polar white/yellow **1992** 1

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 x 18 x 35 mm

on page T2

Supporting plate order no. 0945 59 ..

- with cinch socket and module carrier
- with tool free cutting terminals

VGA module

polar white/black **1994** 1

Dimensions (W x H x D) 31 x 18 x 35 mm;
Conductor cross-section max. 1.5 mm²

on page T2

Supporting plate order no. 0945 59 ..

- 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 **1993** 1

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 x 18 x 35 mm

on page T3

Supporting plate order no. 0945 59 ..

- with S-Video and module carrier
- with tool free cutting terminals

Blank module

polar white, 1gang **1990** 1

Dimensions (W x H x D) 15 x 18 x 35 mm

Supporting plate order no. 0945 59 ..

	Order no.	Packing unit

DATA COMMUNICATIONS/TELECOMMUNICATIONS

Supporting plates for modular jacks

Supporting plate for 2 MINI-COM modules

anthracite, glossy	**09 4559 25 05**	10
grey, glossy	**09 4559 25 07**	10
polar white, glossy	**09 4559 25 09**	10
black, glossy	**09 4559 05**	10

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

Modules:
Panduit

- 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 loudspeaker cables / 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 1gang
- with 30° oblique outlet

Supporting plate for AMP modular jacks 1gang

anthracite, glossy	**09 4557 25 05**	10
grey, glossy	**09 4557 25 07**	10
polar white, glossy	**09 4557 25 09**	10
black, glossy	**09 4557 05**	10

Indexing dimension (W x H) approx. 14.9 x 20.7 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

NEW

Supporting plate for 2 BTR-/E-DAT modules

anthracite, glossy	***08 4558 25 05**	100
grey, glossy	***08 4558 25 07**	100
polar white, glossy	***08 4558 25 09**	100
black, glossy	***08 4558 25 10**	100

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° oblique outlet

Modular jacks

Mini jack 8pole

black, RJ45, cat.3, ISDN-compatible (AWG 24-22)	**1980**	1
RJ45, cat.5e, shielded (AWG 24-22)	**1984**	1
RJ45, cat.6, shielded (AWG 26)	**1985**	1

Supporting plate order no. 0945 59 ..

Cat.5 DIN EN 50173-1:2003 and ISO/IEC 11801, 2nd edition
Cat.6 DIN EN 50173-1:2003 and ISO/IEC 11801, 2nd edition
Protective screen DIN EN 55022 class B
Colour code A and B EIA/TIA 568A

- with cutting terminals

TWIN-BOX

Combination switch/socket outlet

on page T4

TWIN box with SCHUKO socket outlet and rocker switch

	Order no.	Packing unit
polar white, glossy	**1948 08**	1
chrome, matt lacquered	**1948 13**	1

16 A, 250 V~
Switching current 16 AX;
Conductor cross-section 1.5 mm²;
Cable length approx. 1.5 m

More versions available on request!

- pre-assembled, with 3-core lead and 2-core light fitting wire
- for corner-mounting
- for screw cover on backside
- on/off

on page T4

TWIN box with 2 SCHUKO socket outlets

	Order no.	Packing unit
polar white, glossy	**1948 02**	1

16 A, 250 V~
Conductor cross-section 1.5 mm²;
Cable length approx. 1.5 m

Devices of the series Berker Integro and Mobil R Twin can be used in the TWIN Box.

Other designs on request.

- pre-assembled, with 3-core wire
- for corner-mounting
- for screw cover on backside

SWITCHES

Rocker switches Integro Flow/Pure

on page T2

Rocker switch

	Order no.	Packing unit
brown, matt, on/off	**09 3651 25 01**	10
anthracite, matt, on/off	**09 3651 25 05**	10
grey, glossy, on/off	**09 3651 25 07**	10
polar white, glossy, on/off	**09 3651 25 09**	10
black, glossy, on/off	***09 3651 25 10**	10
granite black, silk matt lacquered, on/off	***09 3651 25 45**	10
chrome, matt lacquered, on/off	***09 3651 25 68**	10
chrome, glossy galvanised, on/off	**09 3651 25 18**	10
chrome, matt galvanised, on/off	**09 3651 25 28**	10
stainless steel, lacquered, on/off	***09 3651 25 24**	10
brown, matt, change-over	**09 3656 25 01**	10
anthracite, matt, change-over	**09 3656 25 05**	10
grey, glossy, change-over	**09 3656 25 07**	10
polar white, glossy, change-over	**09 3656 25 09**	10
black, glossy, change-over	***09 3656 25 10**	10
granite black, silk matt lacquered, change-over	***09 3656 25 45**	10
chrome, matt lacquered, change-over	***09 3656 25 68**	10
chrome, glossy galvanised, change-over	**09 3656 25 18**	10
chrome, matt galvanised, change-over	**09 3656 25 28**	10
stainless steel, lacquered, change-over	***09 3656 25 24**	10
brown, matt, intermediate	**09 3657 25 01**	10
anthracite, matt, intermediate	**09 3657 25 05**	10
grey, glossy, intermediate	**09 3657 25 07**	10
polar white, glossy, intermediate	**09 3657 25 09**	10
black, glossy, intermediate	***09 3657 25 10**	10
chrome, matt lacquered, intermediate	***09 3657 25 68**	10
chrome, matt galvanised, intermediate	**09 3657 25 28**	10
stainless steel, lacquered, intermediate	***09 3657 25 24**	10

16 AX, 250 V~

For contact protection box Ø 45 mm
order no. 0918 20 02, 0918 20
For contact protection box flat Ø 45 mm
order no. 0918 20 01, 0918 20 03
IP44 protection only guaranteed for installation with sealing order no. 09 1853 and frame with imprint „IP44“ order no. 0918 27 ..
For contact protection box Ø 49 mm
order no. 0918 83, 0918 87 ..
For contact protection box 2gang vertical, deep
order no. 0919 11 ..
For contact protection box 2gang horizontal, deep
order no. 0919 12 ..
For contact protection box 2gang
order no. 0919 15 0..
For contact protection box 3gang order no. 0919 33

- with screw terminals

	Order no.	Packing unit

NEW

on page T2

Rocker switch

	Order no.	Packing unit
brown, matt, 2pole Off	**09 3652 25 01**	10
anthracite, matt, 2pole Off	**09 3652 25 05**	10
grey, glossy, 2pole Off	**09 3652 25 07**	10
polar white, glossy, 2pole Off	**09 3652 25 09**	10
black, glossy, 2pole Off	***09 3652 25 10**	10
granite black, silk matt lacquered, 2pole Off	***09 3652 25 45**	10
chrome, matt lacquered, 2pole Off	***09 3652 25 68**	10
chrome, glossy galvanised, 2pole Off	***09 3652 25 18**	10
chrome, matt galvanised, 2pole Off	**09 3652 25 28**	10
stainless steel, lacquered, 2pole Off	***09 3652 25 24**	10

16 AX, 250 V~

For switching of 16 A socket outlets, for example.

For contact protection box flat Ø 45 mm order no. 0918 20 01, 0918 20 03
For contact protection box Ø 45 mm order no. 0918 20 02
IP44 protection only guaranteed for installation with sealing order no. 09 1853 and frame with imprint „IP44“ order no. 0918 27 ..
For contact protection box Ø 49 mm order no. 0918 83, 0918 87 ..
For contact protection box 2gang vertical, deep order no. 0919 11 ..
For contact protection box 2gang horizontal, deep order no. 0919 12 ..
For contact protection box 2gang order no. 0919 15 0..
For contact protection box 3gang order no. 0919 33

- with imprint „0“
- with screw terminals

NEW

on page T2

Rocker control switch with red lens

	Order no.	Packing unit
brown, matt, 2pole Off	**09 3752 25 01**	10
anthracite, matt, 2pole Off	**09 3752 25 05**	10
grey, glossy, 2pole Off	**09 3752 25 07**	10
polar white, glossy, 2pole Off	**09 3752 25 09**	10
black, glossy, 2pole Off	***09 3752 25 10**	10
granite black, silk matt lacquered, 2pole Off	***09 3752 25 45**	10
chrome, glossy, 2pole Off	**08 3752 25 18**	50
chrome, matt lacquered, 2pole Off	**09 3752 25 68**	10
stainless steel, lacquered, 2pole Off	***09 3752 25 24**	10

16 AX, 250 V~
Neon lamp current 0.9 mA

For contact protection box Ø 45 mm order no. 0918 20 02, 0918 20
For contact protection box flat Ø 45 mm order no. 0918 20 01, 0918 20 03
IP44 protection only guaranteed for installation with sealing order no. 09 1853 and frame with imprint „IP44“ order no. 0918 27 ..
For contact protection box Ø 49 mm order no. 0918 83, 0918 87 ..
For contact protection box 2gang vertical, deep order no. 0919 11 ..
For contact protection box 2gang horizontal, deep order no. 0919 12 ..
For contact protection box 2gang order no. 0919 15 0..
For contact protection box 3gang order no. 0919 33

- with imprint „0“
- with integral neon lamp
- for illumination and monitoring circuit
- with screw terminals

	Order no.	Packing unit

on page T2

Rocker control switch 12 V with red lens

brown, matt, 2pole on/off	**09 3762 25 31**	10
anthracite, matt, 2pole on/off	**09 3762 25 35**	10
polar white, glossy, 2pole on/off	**09 3762 25 39**	10
black, glossy, 2pole on/off	***09 3762 25 10**	10
chrome, matt lacquered, 2pole on/off	**09 3762 25 68**	10
stainless steel, lacquered, 2pole on/off	***09 3762 25 24**	10

5 A, 12 V=
LED current 10 mA

For contact protection box Ø 45 mm order no. 0918 20 02, 0918 20
For contact protection box flat Ø 45 mm order no. 0918 20 01, 0918 20 03
For contact protection box Ø 49 mm order no. 0918 83, 0918 87 ..
For contact protection box 2gang vertical, deep order no. 0919 11 ..
For contact protection box 2gang horizontal, deep order no. 0919 12 ..
For contact protection box 2gang order no. 0919 15 0..
For contact protection box 3gang order no. 0919 33

- with imprint „0“
- for illumination and monitoring circuit
- with integral indicator LED
- with screw terminals

Rocker switches Integro Classic

on page T2

Rocker switch

brown, matt, on/off	**09 3651 01**	10
granite black, silk matt lacquered	***09 3651 45**	10
grey, glossy, on/off	**09 3651 07**	10
polar white, glossy, on/off	**09 3651 09**	10
black, matt, on/off	**09 3651 05**	10
chrome, glossy galvanised, on/off	**09 3651 18**	10
chrome, matt galvanised, on/off	**09 3651 28**	10
gold, glossy galvanised, on/off	**09 3651 38**	10
brown, matt, change-over	**09 3656 01**	10
granite black, silk matt lacquered, change-over	***09 3656 45**	10
grey, glossy, change-over	**09 3656 07**	10
polar white, glossy, change-over	**09 3656 09**	10
black, matt, change-over	**09 3656 05**	10
chrome, glossy galvanised, change-over	**09 3656 18**	10
chrome, matt galvanised, change-over	**09 3656 28**	10
gold, glossy galvanised, change-over	**09 3656 38**	10
brown, matt, intermediate	**09 3657 01**	10
grey, glossy, intermediate	**09 3657 07**	10
polar white, glossy, intermediate	**09 3657 09**	10
black, matt, intermediate	**09 3657 05**	10

16 AX, 250 V~

For contact protection box Ø 45 mm order no. 0918 20 02, 0918 20
For contact protection box flat Ø 45 mm order no. 0918 20 01, 0918 20 03
IP44 protection only guaranteed for installation with sealing order no. 09 1853 and frame with imprint „IP44“ order no. 0918 27 ..
For contact protection box Ø 49 mm order no. 0918 83, 0918 87 ..
For contact protection box 2gang vertical, deep order no. 0919 11 ..
For contact protection box 2gang horizontal, deep order no. 0919 12 ..
For contact protection box 2gang order no. 0919 15 0..
For contact protection box 3gang order no. 0919 33

- with screw terminals

	Order no.	Packing unit

NEW

on page T2

Rocker switch

	Order no.	Packing unit
brown, matt, 2pole Off	**09 3652 01**	10
granite black, silk matt lacquered, 2pole Off	***09 3652 45**	10
grey, glossy, 2pole Off	**09 3652 07**	10
polar white, glossy, 2pole Off	**09 3652 09**	10
black, matt, 2pole Off	**09 3652 05**	10
chrome, glossy galvanised, 2pole Off	***09 3652 18**	10
chrome, matt galvanised, 2pole Off	**09 3652 28**	10
gold, glossy galvanised, 2pole Off	***09 3652 38**	10

16 AX, 250 V~

For switching of 16 A socket outlets, for example.

For contact protection box Ø 45 mm order no. 0918 20 02, 0918 20
For contact protection box flat Ø 45 mm order no. 0918 20 01, 0918 20 03
IP44 protection only guaranteed for installation with sealing order no. 09 1853 and frame with imprint „IP44“ order no. 0918 27 ..
For contact protection box Ø 49 mm order no. 0918 83, 0918 87 ..
For contact protection box 2gang vertical, deep order no. 0919 11 ..
For contact protection box 2gang horizontal, deep order no. 0919 12 ..
For contact protection box 2gang order no. 0919 15 0..
For contact protection box 3gang order no. 0919 33

- with imprint „0“
- with screw terminals

NEW

on page T2

Rocker control switch with red lens

	Order no.	Packing unit
brown, matt, 2pole Off	**09 3752 01**	10
grey, glossy, 2pole Off	**09 3752 07**	10
polar white, glossy, 2pole Off	**09 3752 09**	10
black, matt, 2pole Off	**09 3752 05**	10
granite black, silk matt lacquered, 2pole Off	***09 3752 45**	10
chrome, glossy galvanised, 2pole Off	***09 3752 18**	10
chrome, matt galvanised, 2pole Off	***09 3752 28**	10
gold, glossy galvanised, 2pole Off	***09 3752 38**	10

16 AX, 250 V~
Neon lamp current 0.9 mA

For contact protection box Ø 45 mm order no. 0918 20 02, 0918 20
For contact protection box flat Ø 45 mm order no. 0918 20 01, 0918 20 03
IP44 protection only guaranteed for installation with sealing order no. 09 1853 and frame with imprint „IP44“ order no. 0918 27 ..
For contact protection box Ø 49 mm order no. 0918 83, 0918 87 ..
For contact protection box 2gang vertical, deep order no. 0919 11 ..
For contact protection box 2gang horizontal, deep order no. 0919 12 ..
For contact protection box 2gang order no. 0919 15 0..
For contact protection box 3gang order no. 0919 33

- with imprint „0“
- with integral neon lamp
- for illumination and monitoring circuit
- with screw terminals

	Order no.	Packing unit

Rockers switches Integro Flow/Pure

NEW

Rockers switch

brown, matt, series	**09 3655 25 01**	10
anthracite, matt, series	**09 3655 25 05**	10
grey, glossy, series	**09 3655 25 07**	10
polar white, glossy, series	**09 3655 25 09**	10
black, glossy, series	***09 3655 25 10**	10
granite black, silk matt lacquered, series	***09 3655 25 45**	10
chrome, matt lacquered, series	***09 3655 25 68**	10
chrome, glossy galvanised, series	**09 3655 25 18**	10
chrome, matt galvanised, series	**09 3655 25 28**	10
stainless steel, lacquered, series	***09 3655 25 24**	10

16 AX, 250 V~

For contact protection box Ø 45 mm
order no. 0918 20 02, 0918 20
For contact protection box flat Ø 45 mm
order no. 0918 20 01, 0918 20 03
For contact protection box Ø 49 mm
order no. 0918 83, 0918 87 ..
For contact protection box 2gang vertical, deep
order no. 0919 11 ..
For contact protection box 2gang horizontal, deep
order no. 0919 12 ..
For contact protection box 2gang
order no. 0919 15 0..
For contact protection box 3gang order no. 0919 33

■ with screw terminals

Rockers switches Integro Classic

NEW

Rockers switch

brown, matt, series	**09 3655 01**	10
grey, glossy, series	**09 3655 07**	10
polar white, glossy, series	**09 3655 09**	10
black, matt, series	**09 3655 05**	10
granite black, silk matt lacquered, series	***09 3655 45**	10
chrome, glossy galvanised, series	**09 3655 18**	10
chrome, matt galvanised, series	**09 3655 28**	10
gold, glossy galvanised, series	**09 3655 38**	10

16 AX, 250 V~

For contact protection box Ø 45 mm
order no. 0918 20 02, 0918 20
For contact protection box flat Ø 45 mm
order no. 0918 20 01, 0918 20 03
For contact protection box Ø 49 mm
order no. 0918 83, 0918 87 ..
For contact protection box 2gang vertical, deep
order no. 0919 11 ..
For contact protection box 2gang horizontal, deep
order no. 0919 12 ..
For contact protection box 2gang
order no. 0919 15 0..
For contact protection box 3gang order no. 0919 33

■ with screw terminals

	Order no.	Packing unit

PUSH-BUTTONS

Rocker push-buttons Integro Flow/Pure

NEW ✓

on page T2

Rocker push-button

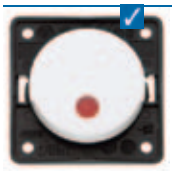
brown, matt, NO contact	**09 3671 25 01**	10
anthracite, matt, NO contact	**09 3671 25 05**	10
grey, glossy, NO contact	**09 3671 25 07**	10
polar white, glossy, NO contact	**09 3671 25 09**	10
black, glossy, NO contact	***09 3671 25 10**	10
granite black, silk matt lacquered, NO contact	***09 3671 25 45**	10
chrome, matt lacquered, NO contact	***09 3671 25 68**	10
chrome, glossy galvanised, NO contact	**09 3671 25 18**	10
chrome, matt galvanised, NO contact	**09 3671 25 28**	10
stainless steel, lacquered, NO contact	***09 3671 25 24**	10

10 A, 250 V~

For contact protection box Ø 45 mm
order no. 0918 20 02, 0918 20
For contact protection box flat Ø 45 mm
order no. 0918 20 01, 0918 20 03
IP44 protection only guaranteed for installation with sealing order no. 09 1853 and frame with imprint „IP44“ order no. 0918 27 ..
For contact protection box Ø 49 mm
order no. 0918 83, 0918 87 ..
For contact protection box 2gang vertical, deep
order no. 0919 11 ..
For contact protection box 2gang horizontal, deep
order no. 0919 12 ..
For contact protection box 2gang
order no. 0919 15 0..
For contact protection box 3gang order no. 0919 33

■ with screw terminals

	Order no.	Packing unit



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Rocker push-button with lighting and red lens

	Order no.	Packing unit
brown, matt, NO contact	**09 3772 25 01**	10
anthracite, matt, NO contact	**09 3772 25 05**	10
grey, glossy, NO contact	**09 3772 25 07**	10
polar white, glossy, NO contact	**09 3772 25 09**	10

10 A, 250 V~
Neon lamp current 0.9 mA

If multiple illuminated rocker push-buttons are used the lamp current may result in malfunctioning of the relay/remote control switch.
Remedy: Insert a neutral conductor or connect a capacitor 230 V, 1 µF per 10 mA neon lamp current in parallel with the coil.

For contact protection box Ø 45 mm
order no. 0918 20 02, 0918 20
For contact protection box flat Ø 45 mm
order no. 0918 20 01, 0918 20 03
IP44 protection only guaranteed for installation with sealing order no. 09 1853 and frame with imprint „IP44“ order no. 0918 27 ..
For contact protection box Ø 49 mm
order no. 0918 83, 0918 87 ..
For contact protection box 2gang vertical, deep
order no. 0919 11 ..
For contact protection box 2gang horizontal, deep
order no. 0919 12 ..
For contact protection box 2gang
order no. 0919 15 0..
For contact protection box 3gang order no. 0919 33

- with integral neon lamp
- for illumination and monitoring circuit
- with screw terminals

Rocker push-buttons Integro Classic

on page T2

Rocker push-button

	Order no.	Packing unit
brown, matt, NO contact	**09 3671 01**	10
grey, glossy, NO contact	**09 3671 07**	10
polar white, glossy, NO contact	**09 3671 09**	10
black, matt, NO contact	**09 3671 05**	10
granite black, silk matt lacquered, NO contact	***09 3671 45**	10
chrome, glossy galvanised, NO contact	***09 3671 18**	10
chrome, matt galvanised, NO contact	***09 3671 28**	10
gold, glossy galvanised, NO contact	***09 3671 38**	10

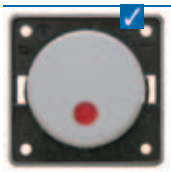
10 A, 250 V~

For contact protection box Ø 45 mm
order no. 0918 20 02, 0918 20
For contact protection box flat Ø 45 mm
order no. 0918 20 01, 0918 20 03
IP44 protection only guaranteed for installation with sealing order no. 09 1853 and frame with imprint „IP44“ order no. 0918 27 ..
For contact protection box Ø 49 mm
order no. 0918 83, 0918 87 ..
For contact protection box 2gang vertical, deep
order no. 0919 11 ..
For contact protection box 2gang horizontal, deep
order no. 0919 12 ..
For contact protection box 2gang
order no. 0919 15 0..
For contact protection box 3gang order no. 0919 33

- with screw terminals

"*" New

	Order no.	Packing unit



on page T2

Rocker push-button with lighting and red lens

brown, matt, NO contact	**09 3772 01**	10
grey, glossy, NO contact	**09 3772 07**	10
polar white, glossy, NO contact	**09 3772 09**	10
black, matt, NO contact	**09 3772 05**	10

10 A, 250 V~
Neon lamp current 0.9 mA

If multiple illuminated rocker push-buttons are used the lamp current may result in malfunctioning of the relay/remote control switch.
Remedy: Insert a neutral conductor or connect a capacitor 230 V, 1 µF per 10 mA neon lamp current in parallel with the coil.

For contact protection box Ø 45 mm
order no. 0918 20 02, 0918 20
For contact protection box flat Ø 45 mm
order no. 0918 20 01, 0918 20 03
IP44 protection only guaranteed for installation with sealing order no. 09 1853 and frame with imprint „IP44“ order no. 0918 27 ..
For contact protection box Ø 49 mm
order no. 0918 83, 0918 87 ..
For contact protection box 2gang vertical, deep
order no. 0919 11 ..
For contact protection box 2gang horizontal, deep
order no. 0919 12 ..
For contact protection box 2gang
order no. 0919 15 0..
For contact protection box 3gang order no. 0919 33

- with integral neon lamp
- for illumination and monitoring circuit
- with screw terminals

Rockers push-buttons Integro Flow/Pure

Rockers push-button

brown, matt, 2 NO contacts, common input terminal	**09 3675 25 01**	10
anthracite, matt, 2 NO contacts, common input terminal	**09 3675 25 05**	10
grey, glossy, 2 NO contacts, common input terminal	**09 3675 25 07**	10
polar white, glossy, 2 NO contacts, common input terminal	**09 3675 25 09**	10
black, glossy, 2 NO contacts, common input terminal	***09 3675 25 10**	10
granite black, silk matt lacquered, 2 NO contacts, common input terminal	***09 3675 25 45**	10
chrome, matt lacquered, 2 NO contacts, common input terminal	***09 3675 25 68**	10
chrome, glossy galvanised, 2 NO contacts, common input terminal	**09 3675 25 18**	10
chrome, matt galvanised, 2 NO contacts, common input terminal	**09 3675 25 08**	10
stainless steel, lacquered, 2 NO contacts, common input terminal	***09 3675 25 24**	10

10 A, 250 V~

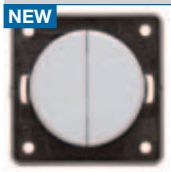
For contact protection box Ø 45 mm
order no. 0918 20 02, 0918 20
For contact protection box flat Ø 45 mm
order no. 0918 20 01, 0918 20 03
For contact protection box Ø 49 mm
order no. 0918 83, 0918 87 ..
For contact protection box 2gang vertical, deep
order no. 0919 11 ..
For contact protection box 2gang horizontal, deep
order no. 0919 12 ..
For contact protection box 2gang
order no. 0919 15 0..
For contact protection box 3gang order no. 0919 33

- with screw terminals

	Order no.	Packing unit

Rockers push-buttons Integro Classic

NEW



Rockers push-button

	Order no.	Packing unit
brown, matt, 2 NO contacts, common input terminal	**09 3675 01**	10
grey, glossy, 2 NO contacts, common input terminal	**09 3675 07**	10
polar white, glossy, 2 NO contacts, common input terminal	**09 3675 09**	10
black, matt, 2 NO contacts, common input terminal	**09 3675 05**	10
granite black, silk matt lacquered, 2 NO contacts, common input terminal	***09 3675 45**	10
chrome, glossy galvanised, 2 NO contacts, common input terminal	***09 3675 18**	10
chrome, matt galvanised, 2 NO contacts, common input terminal	***09 3675 28**	10
gold, glossy galvanised, 2 NO contacts, common input terminal	***09 3675 38**	10

10 A, 250 V~

For contact protection box Ø 45 mm
order no. 0918 20 02, 0918 20
For contact protection box flat Ø 45 mm
order no. 0918 20 01, 0918 20 03
For contact protection box Ø 49 mm
order no. 0918 83, 0918 87 ..
For contact protection box 2gang vertical, deep
order no. 0919 11 ..
For contact protection box 2gang horizontal, deep
order no. 0919 12 ..
For contact protection box 2gang
order no. 0919 15 0..
For contact protection box 3gang order no. 0919 33

- with screw terminals

PUSH-BUTTONS FOR SHUTTERS

Rockers push-buttons for shutters Integro Flow

NEW

Rockers push-button for blinds with imprinted arrow symbol

	Order no.	Packing unit
brown, matt, 1pole	***09 3653 25 01**	10
anthracite, matt, 1pole	***09 3653 25 05**	10
grey, glossy, 1pole	***09 3653 25 07**	10
polar white, glossy, 1pole	***09 3653 25 09**	10
black, glossy, 1pole	***09 3653 25 10**	10
granite black, silk matt lacquered, 1pole	***09 3653 25 45**	10
chrome, matt lacquered, 1pole	***09 3653 25 68**	10
chrome, glossy galvanised, 1pole	***09 3653 25 18**	10
chrome, matt galvanised, 1pole	**09 3653 25 08**	10
stainless steel, lacquered, 1pole	***09 3653 25 24**	10

Follow the motor manufacturers` instructions!

For contact protection box Ø 45 mm
order no. 0918 20 02, 0918 20
For contact protection box flat Ø 45 mm
order no. 0918 20 01, 0918 20 03
For contact protection box Ø 49 mm
order no. 0918 83, 0918 87 ..
For contact protection box 2gang vertical, deep
order no. 0919 11 ..
For contact protection box 2gang horizontal, deep
order no. 0919 12 ..
For contact protection box 2gang
order no. 0919 15 0..
For contact protection box 3gang order no. 0919 33

- with electrical interlocking to prevent mutual activation
- with screw terminals

	Order no.	Packing unit

Rockers push-buttons for shutters Integro Classic

NEW

Rockers push-button for blinds with imprinted arrow symbol

brown, matt, 1pole	*09 3653 01	10
grey, glossy, 1pole	*09 3653 07	10
polar white, glossy, 1pole	*09 3653 09	10
black, matt, 1pole	*09 3653 05	10
granite black, silk matt lacquered, 1pole	*09 3653 45	10
chrome, glossy galvanised, 1pole	*09 3653 18	10
chrome, glossy galvanised, 1pole	*09 3653 28	10
gold, glossy galvanised, 1pole	*09 3653 38	10

Follow the motor manufacturers` instructions!

For contact protection box Ø 45 mm
order no. 0918 20 02, 0918 20
For contact protection box flat Ø 45 mm
order no. 0918 20 01, 0918 20 03
For contact protection box Ø 49 mm
order no. 0918 83, 0918 87 ..
For contact protection box 2gang vertical, deep
order no. 0919 11 ..
For contact protection box 2gang horizontal, deep
order no. 0919 12 ..
For contact protection box 2gang
order no. 0919 15 0..
For contact protection box 3gang order no. 0919 33

- with electrical interlocking to prevent mutual activation
- with screw terminals

POLE REVERSAL ROCKER PUSH-BUTTONS

Reverse polarity rocker push-button

chrome, glossy galvanised	09 3697 25 18	10

12 V=, 15 A, 24 V=, 7.5 A
fast-on terminal size 4.8 x 0.8 mm

For contact protection box Ø 45 mm
order no. 0918 20 02, 0918 20
For contact protection box Ø 49 mm
order no. 0918 83, 0918 87 ..
For contact protection box 2gang vertical, deep
order no. 0919 11 ..
For contact protection box 2gang horizontal, deep
order no. 0919 12 ..
For contact protection box 2gang
order no. 0919 15 0..
For contact protection box 3gang order no. 0919 33

- e.g. for caravan step
- 6 contacts at the backside
- double change-over contact, usable as NC or NO with separate input terminals
- with fast-on terminal connection

NEW

Reverse polarity rocker push-button with imprinted step+symbol arrows

brown, matt	09 3699 25 01	10
anthracite, matt	09 3699 25 05	10
grey, glossy	09 3699 25 07	10
polar white, glossy	09 3699 25 09	10
chrome, matt lacquered	*09 3699 25 68	10
chrome, matt galvanised	09 3699 25 28	10

12 V=, 15 A, 24 V=, 7.5 A
fast-on terminal size 4.8 x 0.8 mm

For contact protection box Ø 45 mm
order no. 0918 20 02, 0918 20
For contact protection box Ø 49 mm
order no. 0918 83, 0918 87 ..
For contact protection box 2gang vertical, deep
order no. 0919 11 ..
For contact protection box 2gang horizontal, deep
order no. 0919 12 ..
For contact protection box 2gang
order no. 0919 15 0..
For contact protection box 3gang order no. 0919 33

- e.g. for caravan step
- with fast-on terminal connection
- 4 contacts at the backside

NEW

Reverse polarity rocker push-button with imprinted step+symbol arrows

brown, matt	09 3695 25 01	10
anthracite, matt	09 3695 25 05	10
grey, glossy	09 3695 25 07	10
polar white, glossy	09 3695 25 09	10
chrome, matt lacquered	*09 3695 25 68	10
chrome, glossy galvanised	09 3695 25 18	10
chrome, matt galvanised	09 3695 25 28	10

12 V=, 15 A, 24 V=, 7.5 A
fast-on terminal size 4.8 x 0.8 mm

For contact protection box Ø 45 mm
order no. 0918 20 02, 0918 20
For contact protection box Ø 49 mm
order no. 0918 83, 0918 87 ..
For contact protection box 2gang vertical, deep
order no. 0919 11 ..
For contact protection box 2gang horizontal, deep
order no. 0919 12 ..
For contact protection box 2gang
order no. 0919 15 0..
For contact protection box 3gang order no. 0919 33

- e.g. for caravan step
- with fast-on terminal connection
- 5 contacts at the backside

	Order no.	Packing unit

Reverse polarity rocker push-button with imprinted step+symbol arrows

anthracite, matt	**09 3697 25 05**	10

12 V=, 15 A, 24 V=, 7.5 A
fast-on terminal size 4.8 x 0.8 mm

For contact protection box Ø 45 mm order no. 0918 20 02, 0918 20
For contact protection box Ø 49 mm order no. 0918 83, 0918 87 ..
For contact protection box 2gang vertical, deep order no. 0919 11 ..
For contact protection box 2gang horizontal, deep order no. 0919 12 ..
For contact protection box 2gang order no. 0919 15 0..
For contact protection box 3gang order no. 0919 33

- e.g. for caravan step
- with fast-on terminal connection
- 6 contacts at the backside
- double change-over contact, usable as NC or NO with separate input terminals

NEW

Reverse polarity rocker push-button with imprinted awning+symbol arrows

anthracite, matt	**09 3696 25 05**	10
chrome, matt lacquered	***09 3696 25 68**	10
chrome, glossy galvanised	**09 3696 25 18**	10
chrome, matt galvanised	**09 3696 25 28**	10
black, matt	**09 3699 35**	10

12 V=, 15 A, 24 V=, 7.5 A
fast-on terminal size 4.8 x 0.8 mm

For contact protection box Ø 45 mm order no. 0918 20 02, 0918 20
For contact protection box Ø 49 mm order no. 0918 83, 0918 87 ..
For contact protection box 2gang vertical, deep order no. 0919 11 ..
For contact protection box 2gang horizontal, deep order no. 0919 12 ..
For contact protection box 2gang order no. 0919 15 0..
For contact protection box 3gang order no. 0919 33

- e.g. for caravan awning
- with fast-on terminal connection
- 4 contacts at the backside

APPLIANCE SWITCHES

Appliance rocker switch „USA/CANADA“

anthracite, matt, 2pole Off	**09 4509 25 05**	10
polar white, matt, 2pole Off	**09 4509 25 02**	10
black, matt, 2pole Off	**09 4509 05**	10

16 A, 250 V~
fast-on terminal size 6.3 x 0.8 mm

Switch UL listed.

For contact protection box Ø 45 mm order no. 0918 20 02, 0918 20
For contact protection box flat Ø 45 mm order no. 0918 20 01, 0918 20 03
For contact protection box Ø 49 mm order no. 0918 83, 0918 87 ..
For contact protection box 2gang vertical, deep order no. 0919 11 ..
For contact protection box 2gang horizontal, deep order no. 0919 12 ..
For contact protection box 2gang order no. 0919 15 0..
For contact protection box 3gang order no. 0919 33

- with imprint „0“ and „1“
- with fast-on terminal connection

ROTARY DIMMERS

Rotary dimmers Integro Flow/Pure

NEW

Rotary dimmer 12 V= with setting knob

brown, matt	**09 2876 25 01**	1
anthracite, matt	**09 2876 25 05**	1
grey, glossy	**09 2876 25 07**	1
polar white, glossy	**09 2876 25 09**	1
black, glossy	***09 2876 25 10**	1
granite black, silk matt lacquered	***09 2876 25 45**	1
chrome, matt lacquered	***09 2876 25 68**	1
stainless steel, lacquered	***09 2876 25 24**	1
chrome, glossy galvanised	**09 2876 25 18**	1
chrome, matt galvanised	**09 2876 25 28**	1

12 V=
12 V incandescent and halogen lamps 10 - 60 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.	Packing unit

NEW

on page T2

Rotary dimmer with setting knob

brown, matt	**09 2870 25 01**	10
anthracite, matt	**09 2870 25 05**	10
grey, glossy	**09 2870 25 07**	10
polar white, glossy	**09 2870 25 09**	10
black, glossy	***09 2870 25 10**	10
granite black, silk matt lacquered	***09 2870 25 45**	10
stainless steel, lacquered	***09 2870 25 24**	10
chrome, matt lacquered	***09 2870 25 68**	10
chrome, glossy galvanised	**09 2870 25 18**	10
chrome, matt galvanised	**09 2870 25 28**	10

230 V~, 50 Hz
230 V incandescent and halogen lamps 40 - 200 W;
Power boosters built-in/RMD max. 10;
Axial dimension diameter 4 mm

For contact protection box Ø 45 mm
order no. 0918 20 02, 0918 20
For contact protection box Ø 49 mm
order no. 0918 83, 0918 87 ..
For contact protection box 2gang vertical, deep
order no. 0919 11 ..
For contact protection box 2gang horizontal, deep
order no. 0919 12 ..
For contact protection box 2gang
order no. 0919 15 0..
For contact protection box 3gang order no. 0919 33

- with change-over pressure switch
- short-circuit and overload proof (fine-wire fuse)
- with spare fuse
- phase cut-on
- with screw terminals

Rotary dimmers Integro Flow

Rotary dimmer with setting knob and frame

brown, matt	**09 2871 25 71**	1
anthracite, matt	**09 2871 25 75**	1
grey, glossy	**09 2871 25 77**	1
polar white, glossy	**09 2871 25 79**	1

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
- short-circuit and overload proof (fine-wire fuse)
- with spare fuse
- phase cut-on
- with screw terminals

Rotary dimmers Integro Classic

NEW

Rotary dimmer 12 V= with setting knob

brown, matt	***09 2876 01**	10
grey, glossy	***09 2876 07**	10
polar white, glossy	***09 2876 09**	10
black, matt	***09 2876 05**	10
granite black, silk matt lacquered	***09 2876 45**	10
chrome, glossy galvanised	***09 2876 18**	10
chrome, matt galvanised	***09 2876 28**	10
gold, glossy galvanised	***09 2876 38**	10

12 V=
12 V incandescent and halogen lamps 10 - 60 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

NEW

on page T2

Rotary dimmer with setting knob

brown, matt	**09 2870 01**	10
grey, glossy	**09 2870 07**	10
polar white, glossy	**09 2870 09**	10
black, matt	**09 2870 05**	10
granite black, silk matt lacquered	***09 2870 45**	10
chrome, glossy galvanised	**09 2870 18**	10
chrome, matt galvanised	**09 2870 28**	10
gold, glossy galvanised	**09 2870 38**	10

230 V~, 50 Hz
230 V incandescent and halogen lamps 40 - 200 W;
Power boosters built-in/RMD max. 10;
Axial dimension diameter 4 mm

- with change-over pressure switch
- short-circuit and overload proof (fine-wire fuse)
- with spare fuse
- phase cut-on
- with screw terminals

	Order no.	Packing unit

Rotary dimmer with setting knob and frame

brown, matt	**09 2871 71**	1
grey, glossy	**09 2871 77**	1
polar white, glossy	**09 2871 79**	1
black, matt	**09 2871 75**	1

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 wall boxes, surface-mounted installation housings and clamping rings!

- with change-over pressure switch
- short-circuit and overload proof (fine-wire fuse)
- with spare fuse
- phase cut-on
- with screw terminals

CONTROL UNITS 1-10 V

Control units 1-10 V Integro Flow

Rotary potentiometer 1-10 V with setting knob and frame

brown, matt	**09 2891 25 01**	10
anthracite, matt	**09 2891 25 05**	10
grey, glossy	**09 2891 25 06**	10
polar white, glossy	**09 2891 25 09**	10

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

- with on/off pressure switch
- 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
- short-circuit and overload proof (fine-wire fuse)
- with spare fuse
- with screw terminals

TRANSFORMERS

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

polar white	**2977**	1

230 V~, 50 Hz
Secondary 11.7 V~ eff.;
Frequency secondary approx. 40 kHz;
12 V halogen lamps 20 - 105 W;
Control current 0.8 mA;
Load current primary max. 0.31 A;
Ambient temperature max. 50 °C;
2 primary screw terminal pairs to max. 2.5 mm²;
3 secondary screw terminal pairs to max. 2.5 mm²;
1 screw terminal pair 1-10 V to max. 2.5 mm²;
Secondary cable length max. 1 m;
Dimensions (L x W x H) 216 x 42 x 32 mm

Dimmable with Berker 110 V control units.

Interface to DIN EN 60928
Safety transformer to VDE 0712-24
Spike-resistant to 1500 V according to EN 61047

- 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 cable clamp
- with screw terminals

ACCESSORIES

Contact protection boxes

Wall box, flat, Ø 45 mm

grey, without cable clamp	**09 1820 03**	200
grey, with cable clamp	**09 1820 01**	200

Installation depth 22 mm

on page T3

Flame resistant according to VDE 0606-1

- only for switches and push-buttons
- with cable entry

Wall box Ø 45 mm

grey, without cable clamp	**09 1820 02**	200
grey, with cable clamp	**09 1820**	200

Installation depth 35.5 mm

on page T3

Flame resistant according to VDE 0606-1

- for switches and socket outlets
- with 4 cable entries
- 3 knock out openings

	Order no.	Packing unit

Wall box Ø 49 mm

on page T3

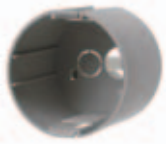
grey, without cable clamp	**09 1887 01**	200
grey, with 1x internal double cable clamp on side	**09 1887**	200

Installation depth 38 mm

Flame resistant according to VDE 0606-1

- with 2 cable entries

Contact protection box deep Ø 49 mm



on page T3

grey, with 1 external double cable clamp	**09 1883**	200

Installation depth 45.5 mm

Flame resistant according to VDE 0606-1

- with 2 cable entries on backside
- 1 knock out opening

Wall box 2gang

on page T3

grey, with cable clamp	**09 1915 01**	10
grey, with 2 cable clamps	**09 1915 02**	10

Length 109 mm;
Width 49 mm;
Installation depth 37 mm

Only suitable for 3-gang frames!
(Apart from order no. 09 1819 25 18)!

Flame resistant according to VDE 0606-1

- for vertical and horizontal mounting
- with 2 cable entries
- 1 knock out opening

Contact protection box for 2gang vertical, deep

on page T3

grey, with 1 external double cable clamp	**09 1911**	100
grey, without double cable clamp	**09 1911 02**	100
grey, with 2x external double cable clamps	**09 1911 01**	100

Length 109 mm;
Width 48 mm;
Installation depth 45.5 mm

Only suitable for 2gang frames!

Flame resistant according to VDE 0606-1

- for vertical mounting
- with 4 cable entries on backside
- 2 knock out openings

Contact protection box for 2gang horizontal, deep

on page T3

grey, with 1 external double cable clamp	**09 1912**	100
grey, with 2x external double cable clamps	**09 1912 01**	100

Length 109 mm;
Width 48 mm;
Installation depth 45.5 mm

Only suitable for 2gang frames!

Flame resistant according to VDE 0606-1

- for horizontal mounting
- with 4 cable entries on backside
- 2 knock out openings

Wall box 3gang

on page T3

grey, with 1 cable clamp	**09 1933**	10

Length 168 mm;
Width 49 mm;
Installation depth 38 mm

Restricted installation options apply if the cable clamp is mounted on the front face.

All devices can optionally be arranged vertically or horizontally.

Flame resistant according to VDE 0606-1

- for vertical and horizontal mounting
- with 6 cable entries, 1 per side, top, bottom and 2 on backside
- 5 knock out openings

Wall box for clamp fastening Ø 58 mm

on page T3

grey, without cable clamp	**08 1837 01**	200
grey, with 1x internal cable clamp	**08 1837**	200

Installation depth 35 mm

Flame resistant according to VDE 0606-1

Fixing rings

Fixing clamp ring

on page T3

grey, material thickness 5 mm	**08 1836**	200
dark grey, material thickness 4 mm	**08 1836 01**	200
polar white, material thickness 6 mm	**08 1836 02**	200

Hole diameter 50 mm

For Berker Integro inserts, e. g. for installation in mirrors.
For contact protection box Ø 58 mm for clamp fastening order no. 0818 ..

	Order no.	Packing unit

Assembly templates

Assembly template, cardboard

	Order no.	Packing unit
grey	**09 1844**	10

For precise hole drilling for 1gang devices and for 2 and 3gang combinations.

Supporting plates for appliance switches

Supporting plate for appliance switches with cover plate

	Order no.	Packing unit
brown, matt	**09 4507 25 01**	10
anthracite, matt	**09 4507 25 05**	10
grey, glossy	**09 4507 25 07**	10
polar white, glossy	**09 4507 25 09**	10
black, matt	**09 4507 05**	10

Cut-out (W x H) 26.4 x 25.5 mm

- for appliance switches, push-buttons and pilot lamps of the series RW and RD

Current limiters

Making current limiter

	Order no.	Packing unit
black	**0185**	1

230 V~, 50/60 Hz, 200 VA
Pre-assembled cable approx. 80 mm;
Dimensions housing (W x H x D)
approx. 51 x 25 x 13 mm

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.

Sealings

Sealing

	Order no.	Packing unit
black	**09 1853**	10

Not for switches/push-buttons with split rocker!

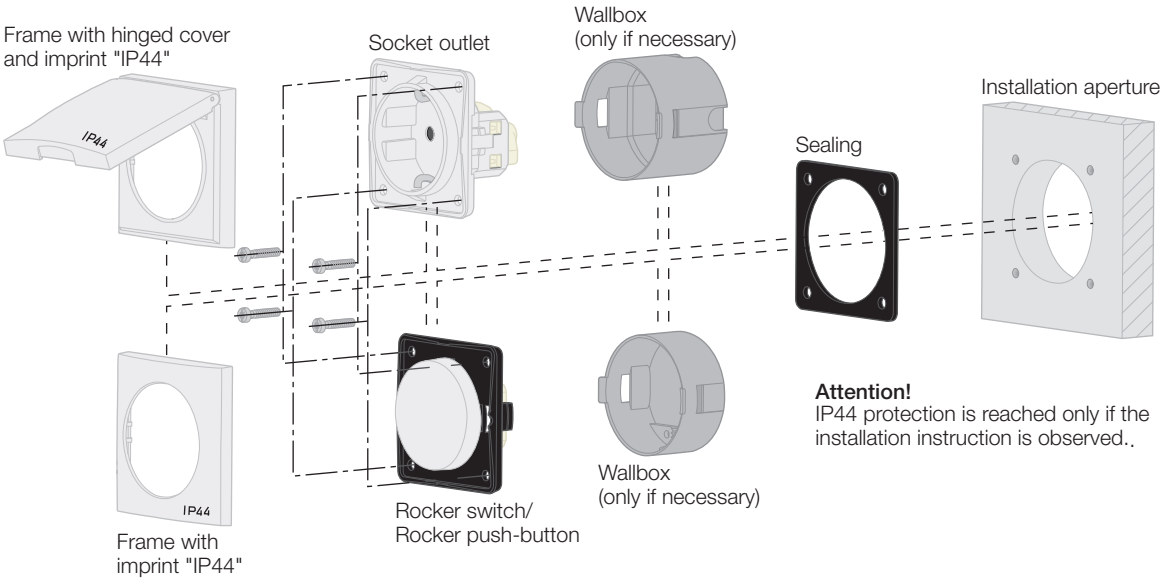
For rocker switches/rocker push-buttons order no. 0837 52 25 18, 0936 51 .., 0936 52 .., 0936 56 .., 0936 57 .., 0936 71 .., 0937 52 .., 0937 72 .. For socket outlets order no. 0841 85 .., 0841 95 25 01, 0847 78 25 01, 0847 79 25 01, 0941 85 .., 0941 95 .., 0947 78 .., 0947 79 .. For socket outlets with earth pin order no. 0861 85 25 01, 0861 95 25 01, 0961 85 .., 0961 95 ..

IP44

- for rocker switches/rocker push-buttons
- for SCHUKO socket outlets and socket outlets with earth pin

	Order no.	Packing unit		Order no.	Packing unit

Installation instructions of IP44 covers



Attention!
IP44 protection is reached only if the installation instruction is observed..

Colour variants	38
Frames	39-40
Frames with hinged covers	40
Blank plates	40
Surface-mount housings	40-41
Accessories	41

BERKER INTEGRO FLOW

Industrial design range
Built-in system

The modern for every installation environment - straight-line contours, angular corners but arched surface geometry. In this manner Integro Flow ensures a harmonious transition to the operating point for any installation surface. The ideal solution for virtually any furnishing style.

✓ Marked items are suitable for installation of splash-protected flush-mounted IP 44 when used in conjunction with appropriate seal and frame with IP44 imprint (see page 35).

PLASTIC, GLOSSY*

Grey similar to RAL 7038

Polar white similar to RAL 9010

Black similar to RAL 9005

Red similar to RAL 3002

Green similar to RAL 6032

Orange similar to RAL 2008

PLASTIC, LACQUERED*

Stainless steel similar to RAL 9022

Chrome, matt similar to RAL 9006

PLASTIC, MATT*

Brown similar to RAL 8017

Anthracite similar to RAL 7021

*Surface structure differs in some cases

FRAMES

NEW

Frame 1gang

	Order no.	Packing unit
brown, matt	09 1827 25 01	10
anthracite, matt	09 1827 25 05	10
grey, glossy	09 1827 25 07	10
polar white, glossy	09 1827 25 09	10
black, glossy	*09 1827 25 10	10
chrome, matt lacquered	*09 1827 25 58	10
stainless steel, lacquered	*09 1827 25 24	10
red, glossy	09 1827 25 76	10
green, glossy	09 1827 25 70	10
orange, glossy	09 1827 25 74	10

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NEW

Frame 2gang

	Order no.	Packing unit
brown, matt	09 1826 25 11	2
anthracite, matt	09 1826 25 15	2
grey, glossy	09 1826 25 07	2
polar white, glossy	09 1826 25 19	2
black, glossy	*09 1826 25 10	2
chrome, matt lacquered	*09 1826 25 58	2
stainless steel, lacquered	*09 1826 25 24	2
red, glossy	09 1826 25 76	2
green, glossy	09 1826 25 70	2
orange, glossy	09 1826 25 74	2

on page T4

■ for vertical and horizontal mounting

NEW

Frame 3gang

	Order no.	Packing unit
brown, matt	09 1819 25 11	2
anthracite, matt	09 1819 25 15	2
grey, glossy	09 1819 25 07	2
polar white, glossy	09 1819 25 19	2
black, glossy	*09 1819 25 10	2
chrome, matt lacquered	09 1819 25 68	2
stainless steel, lacquered	*09 1819 25 24	2
red, glossy	09 1819 25 76	2
green, glossy	09 1819 25 70	2
orange, glossy	09 1819 25 74	2

on page T4

■ for vertical and horizontal mounting

Frame 1gang with labelling field

	Order no.	Packing unit
anthracite, matt	09 1803 25 05	10
grey, glossy	09 1803 25 07	10
polar white, glossy	09 1803 25 09	10
chrome, matt lacquered	09 1803 25 68	10
red, glossy	09 1803 25 76	10
green, glossy	09 1803 25 90	10
orange, glossy	09 1803 25 94	10

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

Frame 1gang with lens

	Order no.	Packing unit
anthracite, matt	09 1987 25 05	10
grey, glossy	09 1987 25 06	10
polar white, glossy	09 1987 25 02	10
red, glossy	09 1987 25 76	10
green, glossy	09 1987 25 03	10
orange, glossy	09 1987 25 04	10

■ for socket with indicator LED

Frame 1gang with labelling field and lens top left

	Order no.	Packing unit
anthracite, matt	08 1970 25 05	200
grey, glossy	08 1970 25 06	200
polar white, glossy	08 1970 25 02	200
red, glossy	08 1970 25 76	200
green, glossy	08 1970 25 03	200
orange, glossy	08 1970 25 04	200

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

■ for socket with indicator LED

Frame 1gang with labelling field and lens top right

	Order no.	Packing unit
anthracite, matt	08 1977 25 05	200
grey, glossy	08 1977 25 06	200
polar white, glossy	08 1977 25 02	200
red, glossy	08 1977 25 76	200
green, glossy	08 1977 25 03	200
orange, glossy	08 1977 25 04	200

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

■ for socket with indicator LED

NEW

Frame 1gang for Truma devices

	Order no.	Packing unit
brown, matt	09 1971 25 01	10
anthracite, matt	09 1971 25 05	10
grey, glossy	09 1971 25 07	10
polar white, glossy	09 1971 25 09	10
black, glossy	*09 1971 25 10	10
chrome, matt lacquered	09 1971 25 68	10
stainless steel, lacquered	*09 1971 25 24	10

To be used only for Truma devices!

Frame 2gang for Truma apparatus

	Order no.	Packing unit
brown, matt	09 1972 25 01	2
anthracite, matt	09 1972 25 05	2
chrome, matt lacquered	09 1972 25 68	2

To be used only for Truma devices!

Frame 3gang for Truma apparatus

	Order no.	Packing unit
brown, matt	09 1973 25 01	2
anthracite, matt	09 1973 25 05	2
chrome, matt lacquered	09 1973 25 68	2

To be used only for Truma devices!

	Order no.	Packing unit

Frame with imprint „IP44“

brown, matt	**09 1827 25 91**	10
anthracite, matt	**09 1827 25 95**	10
grey, glossy	**09 1827 25 97**	10
polar white, glossy	**09 1827 25 99**	10
chrome, matt lacquered	**09 1827 25 68**	10

Not for devices with split rocker!

Protection class IP44 only guaranteed for installation with sealing order no. 0918 53

IP44

- without sealing
- for covering on rocker switches/rocker push-buttons

FRAME WITH HINGED COVER

NEW

Frame 1gang with hinged cover

brown, matt	**09 1828 25 01**	10
anthracite, matt	**09 1828 25 05**	10
grey, glossy	**09 1828 25 07**	10
polar white, glossy	**09 1828 25 09**	10
black, glossy	***09 1828 25 10**	10
chrome, matt lacquered	***09 1828 25 78**	10
stainless steel, lacquered	***09 1828 25 24**	10
red, glossy	**09 1828 25 76**	10
green, glossy	**09 1828 25 70**	10
orange, glossy	**09 1828 25 74**	10

- for covering on socket outlets

Frame 1gang with hinged cover and labelling field

anthracite, matt	**09 1988 25 05**	10
grey, glossy	**09 1988 25 06**	10
polar white, glossy	**09 1988 25 02**	10
red, glossy	**09 1988 25 76**	10
green, glossy	**09 1988 25 03**	10
orange, glossy	**09 1988 25 04**	10

Labelling field height arranged for 9 mm P-touch strips.

- for covering on socket outlets
- with 2 labelling field inlays, neutral and perforated for socket outlet with indicator LED

	Order no.	Packing unit

Frame with hinged cover and imprint „IP44“

brown, matt	**09 1828 25 91**	10
anthracite, matt	**09 1828 25 95**	10
grey, glossy	**09 1828 25 97**	10
polar white, glossy	**09 1828 25 99**	10
chrome, matt lacquered	**09 1828 25 68**	10
red, glossy	**09 1828 25 86**	10
green, glossy	**09 1828 25 90**	10
orange, glossy	**09 1828 25 94**	10

Protection class IP44 only guaranteed for installation with sealing order no. 0918 53

IP44

- without sealing
- for covering on socket outlets

BLANK PLATES

NEW

Blank plate

brown, matt	**09 4516 25 01**	10
anthracite, matt	**09 4516 25 05**	10
grey, glossy	**09 4516 25 07**	10
polar white, glossy	**09 4516 25 09**	10
black, glossy	***09 4516 25 10**	10
chrome, matt lacquered	**08 4516 25 68**	200
stainless steel, lacquered	***09 4516 25 24**	10

- with supporting plate

Blank plate for Truma frame

brown, matt	**09 1974 25 01**	10
anthracite, matt	**09 1974 25 05**	10
grey, matt	**08 1974 25 06**	200
chrome, matt lacquered	**09 1974 25 68**	10
black, matt	**08 1974 25 03**	200

SURFACE-MOUNTED HOUSINGS

on page T4

Built-on installation housing 1gang high design

brown, glossy	**09 1151 25 01**	10
anthracite, glossy	**09 1151 25 05**	10
grey, glossy	**09 1151 25 07**	10
polar white, glossy	**09 1151 25 09**	10
black, glossy	**09 1151 25 10**	10

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

	Order no.	Packing unit

on page T4

Built-on installation housing 1gang high design

	Order no.	Packing unit
brown, glossy, with cable clamp	**09 1151 25 11**	10
anthracite, glossy, with cable clamp	**09 1151 25 15**	10
grey, glossy, with cable clamp	**09 1151 25 17**	10
polar white, glossy, with cable clamp	**09 1151 25 19**	10

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

on page T4

Built-on installation housing 1gang flat design

	Order no.	Packing unit
anthracite, glossy, without cable clamp	**09 1152 25 25**	10
polar white, glossy, without cable clamp	**09 1152 25 29**	10
anthracite, glossy, with cable clamp	**09 1152 25 55**	10
polar white, glossy, with cable clamp	**09 1152 25 59**	10
anthracite, glossy, with 2 cable clamps	**09 1152 25 65**	10
polar white, glossy, with 2 cable clamps	**09 1152 25 69**	10

Dimensions (W x H x D) 59.5 x 59.5 x 16 mm

- to built-on installation of switches and push-buttons
- suitable for mounting on flammable base surface

ACCESSORIES

Distance rings

NEW

on page T4

Surface-mounted spacer ring

	Order no.	Packing unit
brown, glossy	**09 1825 25 11**	10
anthracite, glossy	**09 1825 25 15**	10
grey, glossy	**09 1825 25 06**	10
polar white, glossy	**09 1825 25 12**	10
black, glossy	***09 1825 25 10**	10
chrome, matt lacquered	**09 1825 25 68**	10
stainless steel, lacquered	***09 1825 25 24**	10

Dimensions (W x H x D) 59.5 x 59.5 x 10 mm

- for the reduction of the installation depth of the devices and surface-mounting of switches and push-buttons

Entries/connectors

Cable and duct entry

	Order no.	Packing unit
white	**1813**	10
black	**1813 05**	10
polar white	**1813 09**	10

Also suitable for surface-mounted frames and housings from the flush-mounted ranges.

- for wire or 15 x 15 mm cable duct

Tube entry

	Order no.	Packing unit
black	**1817 05**	10
polar white	**1817 09**	10

Distance from wall to centre of pipe 16 mm

Suitable tubes for surface mounted installation are available from: www.fraenkische-elektro.de

Also suitable for surface-mounted frames and housings from the flush-mounted ranges.

- for tubes with Ø 15.2 mm (PG 9) and M 16
- for tubes with coupling dia. 20.5 mm (PG 13.5) and M 20

Colour variants 44
Frames 45
Frames with hinged covers 45
Blank plates 45
Surface-mount housings 46
Accessories 46

BERKER INTEGRO CLASSIC

Industrial design range
Built-in system

The classic in the Integro family. Timeless design elements such as rounded corners and smooth or structured surfaces perfectly combined with modern design parameters such as flat surface geometry and a discrete radius on the corners. Thus the Integro Classic installations advance to real eye-catchers. The granite black silk matt lacquered guarantees a special operating experience. An innovative refined surface lacquer offers exceptional haptics for the connoisseur.

✓ Marked items are suitable for installation of splash-protected flush-mounted IP 44 when used in conjunction with appropriate seal and frame with IP44 imprint (see page 35).

PLASTIC, GLOSSY*

Grey similar to RAL 7038

Polar white similar to RAL 9010

Red similar to RAL 3002

Green similar to RAL 6032

Orange similar to RAL 2008

PLASTIC, GALVANISED

Chrome, glossy similar to RAL 9023

Chrome, matt similar to RAL 9006

Gold, glossy

PLASTIC, LACQUERED*

Granite black, silk matt similar to RAL 7026

PLASTIC, MATT*

Brown similar to RAL 8017

Black similar to RAL 9011

*Surface structure differs in some cases

FRAMES

NEW

Frame 1gang

	Order no.	Packing unit
brown, matt	09 1827 01	10
grey, glossy	09 1827 07	10
polar white, glossy	09 1827 09	10
black, matt	09 1827 05	10
granite black, silk matt, lacquered	*09 1827 45	10
chrome, glossy galvanised	09 1827 18	10
chrome, matt galvanised	09 1827 28	10
gold, glossy galvanised	09 1827 38	10
red, glossy	09 1827 86	10
green, glossy	*09 1827 87	10
orange, glossy	*09 1827 88	10

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NEW

Frame 2gang

	Order no.	Packing unit
brown, matt	09 1826 11	2
grey, glossy	09 1826 07	2
polar white, glossy	09 1826 19	2
black, matt	09 1826 15	2
granite black, silk matt, lacquered	*09 1826 45	2
chrome, glossy galvanised	09 1826 18	2
chrome, matt galvanised	09 1826 28	2
gold, glossy galvanised	09 1826 38	2

on page T4

- for vertical and horizontal mounting

NEW

Frame 3gang

	Order no.	Packing unit
brown, matt	09 1819 11	2
grey, glossy	09 1819 07	2
polar white, glossy	09 1819 19	2
black, matt	09 1819 15	2
granite black, silk matt, lacquered	*09 1819 45	2

on page T4

- for vertical and horizontal mounting

Frame 1gang with imprint „IP44“

	Order no.	Packing unit
brown, matt	09 1827 91	10
grey, glossy	09 1827 97	10
polar white, glossy	09 1827 99	10
black, matt	09 1827 95	10

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Not for devices with split rocker!

Protection class IP44 only guaranteed for installation with sealing order no. 0918 53

IP44

- for covering on rocker switches/rocker push-buttons
- without sealing

Frame 1gang with hinged cover

	Order no.	Packing unit
brown, matt	09 1828 01	10
grey, glossy	09 1828 07	10
polar white, glossy	09 1828 09	10
black, matt	09 1828 05	10
chrome, glossy galvanised	09 1828 18	10
chrome, matt galvanised	09 1828 28	10
gold, glossy galvanised	09 1828 38	10
granite black, silk matt lacquered	09 1828 45	10

- for covering on socket outlets

Frame 1gang with hinged cover and imprint „IP44“

	Order no.	Packing unit
brown, matt	09 1828 91	10
grey, glossy	09 1828 97	10
polar white, glossy	09 1828 99	10
black, matt	09 1828 95	10
red, glossy	09 1828 86	10
green, glossy	09 1828 90	10
orange, glossy	09 1828 94	10

Protection class IP44 only guaranteed for installation with sealing order no. 0918 53

IP44

- for covering on socket outlets
- without sealing

Frame 1gang screw-on with hinged cover and imprint „IP44“

	Order no.	Packing unit
brown, matt	09 1828 71	10
grey, glossy	09 1828 77	10
polar white, glossy	09 1828 79	10
black, matt	09 1828 75	10

Protection class IP44 only guaranteed for installation with sealing order no. 0918 53

IP44

- for covering on socket outlets
- without sealing

BLANK PLATES

NEW

Blank plate

	Order no.	Packing unit
brown, matt	09 4516 25 01	10
grey, glossy	09 4516 25 07	10
polar white, glossy	09 4516 25 09	10
black, matt	09 4516 05	10
granite black, silk matt, lacquered	*09 4516 25 45	10
chrome, matt lacquered	08 4516 25 68	200

- with supporting plate

	Order no.	Packing unit

SURFACE-MOUNTED HOUSINGS

on page T4

Built-on installation housing 1gang high design

	Order no.	Packing unit
brown, glossy	**09 1151 01**	10
black, glossy	**09 1151 05**	10
grey, glossy	**09 1151 07**	10
polar white, glossy	**09 1151 09**	10

Dimensions (W x H x D) 59.5 x 59.5 x 41 mm

For suitable tube-entries, combination connectors 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

NEW

on page T4

Built-on installation housing 1gang flat design

	Order no.	Packing unit
grey, glossy, without cable clamp	***09 1152 27**	10
brown, glossy, without cable clamp	**09 1152 21**	10
black, glossy, without cable clamp	**09 1152 25**	10
polar white, glossy, without cable clamp	**09 1152 29**	10
black, glossy, with cable clamp	**09 1152 55**	10
polar white, glossy, with cable clamp	**09 1152 59**	10
black, glossy, with 2 cable clamps	**09 1152 65**	10
polar white, glossy, with 2 cable clamps	**09 1152 69**	10

Dimensions (W x H x D) 59.5 x 59.5 x 16 mm

- to built-on installation of switches and push-buttons
- suitable for mounting on flammable base surface

ACCESSORIES

Distance rings

on page T4

Surface-mounted spacer ring

	Order no.	Packing unit
grey, matt	**09 1825 06**	10
brown, matt	**09 1825 11**	10
polar white, matt	**09 1825 12**	10
black, matt	**09 1825 15**	10

Dimensions (W x H x D) 59.5 x 59.5 x 10 mm

- for the reduction of the installation depth of the devices and surface-mounting of switches and push-buttons

Entries/connectors

Cable and duct entry

	Order no.	Packing unit
white	**1813**	10
black	**1813 05**	10
polar white	**1813 09**	10

Also suitable for surface-mounted frames and housings from the flush-mounted ranges.

- for wire or 15 x 15 mm cable duct

Tube entry

	Order no.	Packing unit
black	**1817 05**	10
polar white	**1817 09**	10

Distance from wall to centre of pipe 16 mm

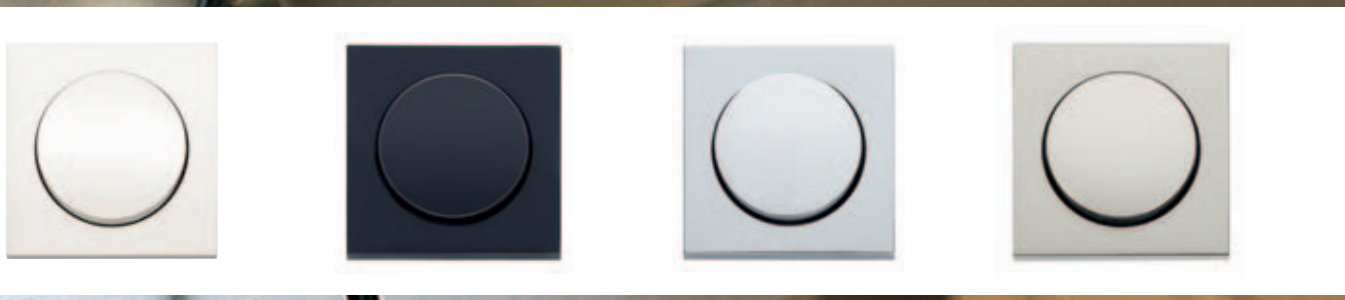
Suitable tubes for surface mounted installation are available from: www.fraenkische-elektro.de

Also suitable for surface-mounted frames and housings from the flush-mounted ranges.

- for tubes with Ø 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		Order no.	Packing unit

Colour variants	50
Frames	51
Blank plates	51
Surface-mount housings	51
Accessories	51



BERKER INTEGRO PURE

Industrial design range
Built-in system

The purist for the built-in installation. Consistently clear, angular and with absolutely planar surface - modern and compact. And consequently the ideal component for aesthectic ambiance. An innovative refined surface lacquer offers exceptional haptics for the connoisseur.

PLASTIC, GLOSSY*

Polar white similar to RAL 9010

Black similar to RAL 9005

PLASTIC, GALVANISED*

Chrome, glossy similar to RAL 9023

Chrome, matt similar to RAL 9006

PLASTIC, LACQUERED*

Granite black, silk matt similar to RAL 7026

Stainless steel similar to RAL 9022

*Surface structure differs in some cases

	Order no.	Packing unit

FRAMES

NEW

on page T4

Frame 1gang

	Order no.	Packing unit
polar white, glossy	*09 1975 25 09	10
black, glossy	*09 1975 25 10	10
granite black, silk matt, lacquered	*09 1975 25 45	10
chrome, glossy	*09 1975 25 18	10
galvanised		
chrome, matt galvanised	*09 1975 25 28	10
stainless steel, lacquered	*09 1975 25 24	10

NEW

on page T4

Frame 2gang

	Order no.	Packing unit
polar white, glossy	*09 1976 25 09	2
black, glossy	*09 1976 25 10	2
granite black, silk matt, lacquered	*09 1976 25 45	2
chrome, glossy	*09 1976 25 18	2
galvanised		
chrome, matt galvanised	*09 1976 25 28	2
stainless steel, lacquered	*09 1976 25 24	2

- for vertical and horizontal mounting

FRAME WITH HINGED COVER

NEW

Frame 1gang with hinged cover

	Order no.	Packing unit
polar white, glossy	09 1828 25 09	10
black, glossy	*09 1828 25 10	10
granite black, silk matt, lacquered	09 1828 25 45	10
stainless steel, lacquered	*09 1828 25 24	10
chrome, glossy	09 1828 25 18	10
chrome, matt	09 1828 25 28	10

- for covering on socket outlets

BLANK PLATES

NEW

Blank plate

	Order no.	Packing unit
polar white, glossy	09 4516 25 09	10
black, glossy	*09 4516 25 10	10
granite black, silk matt, lacquered	*09 4516 25 45	10
chrome, matt lacquered	08 4516 25 68	200
stainless steel, lacquered	*09 4516 25 24	10

- with supporting plate

SURFACE-MOUNTED HOUSINGS

on page T4

Built-on installation housing 1gang high design

	Order no.	Packing unit
polar white, glossy	09 1151 25 09	10
black, glossy	09 1151 25 10	10

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

on page T4

Built-on installation housing 1gang high design

	Order no.	Packing unit
polar white, glossy, with cable clamp	09 1151 25 19	10

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

on page T4

Built-on installation housing 1gang flat design

	Order no.	Packing unit
polar white, glossy, without cable clamp	09 1152 25 29	10
polar white, glossy, with cable clamp	09 1152 25 59	10
polar white, glossy, with 2 cable clamps	09 1152 25 69	10

Dimensions (W x H x D) 59.5 x 59.5 x 16 mm

- to built-on installation of switches and push-buttons
- suitable for mounting on flammable base surface

ACCESSORIES

Distance rings

NEW

on page T4

Surface-mounted spacer ring

	Order no.	Packing unit
polar white, glossy	09 1825 25 12	10
black, glossy	*09 1825 25 10	10
chrome, matt lacquered	09 1825 25 68	10
stainless steel, lacquered	*09 1825 25 24	10

Dimensions (W x H x D) 59.5 x 59.5 x 10 mm

- for the reduction of the installation depth of the devices and surface-mounting of switches and push-buttons

Entries/connectors

Cable and duct entry

	Order no.	Packing unit
white	1813	10
black	1813 05	10
polar white	1813 09	10

Also suitable for surface-mounted frames and housings from the flush-mounted ranges.

- for wire or 15 x 15 mm cable duct

Tube entry

	Order no.	Packing unit
black	1817 05	10
polar white	1817 09	10

Distance from wall to centre of pipe 16 mm

Suitable tubes for surface mounted installation are available from: www.fraenkische-elektro.de

Also suitable for surface-mounted frames and housings from the flush-mounted ranges.

- for tubes with Ø 15.2 mm (PG 9) and M 16
- for tubes with coupling dia. 20.5 mm (PG 13.5) and M 20

SURFACES

FRAME/INSERTS

Plastic, matt lacquered*
anthracite similar to RAL 7021

plastic, glossy lacquered*
grey similar to RAL 7038
chrome similar to RAL 9023

* Surface structure differs in some cases

Ordering and installation instructions 54-55
ICS control units 56-58
ICS buttons 58-59
ICS control cables 59-60
Built-in boosters 61

BERKER INTEGRO CONTROL SYSTEM (ICS)

Industrial system technology
Built-in system

"Multifunctionality" is frequently synonomous with complex installation and complex operation. However the Berker Integro Control system is possibly the most beautiful counter-example: Easy to install, easy to operate, simply good.

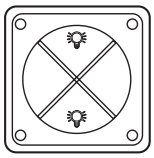
- Light control systems for switching and dimming diverse illuminants
- Ideal solutions, e.g. for recreational vehicles or hotel rooms
- ICS control units in compact plastic housings for installation in hollow walls or furniture as well as for mounting on DIN rails
- Operation via special ICS buttons
- Connection to Berker TS Sensor possible
- Saving of dimming values
- Special solutions for special customer desires on request:
  - Saving of light scenes and central functions
  - Dimming principles that deviate from the standard settings
  - Variable allocation of the inputs and outputs of the ICS control unit

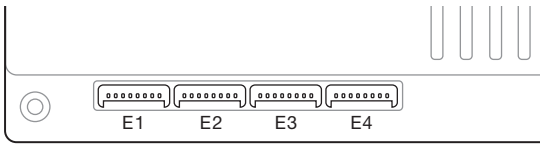
The „heart" of the Integro Control System (ICS) is the control unit that controls the switching, dimming functions and memory functions for various illuminants and other electrical consumers. Operation of the connected consumers is possible via ICS buttons, as well as via the sophisticated glass sensors from Berker TS or conventional buttons.
The ICS control unit is available for two input voltages - 230 V AC and 12 V DC/24 V DC - and in six standard variants that can be adapted on the software side to special customer requirements.

ICS product variants	Order no.	Supply voltage	Switching voltage (outputs)	1 – 10 V interfaces
Control unit 12 V/12 V	09 2701 25 01	12 V DC/24 V DC	10 – 24 V DC	No
Control unit 230 V/12 V	09 2701 25 03	230 V AC	10 – 24 V DC	No
Control unit 230 V/230 V	09 2701 25 05	230 V AC	230 V AC	No
1 – 10 V control unit 12 V/12 V	09 2701 25 02	12 V DC/24 V DC	10 – 24 V DC	Yes
1 – 10 V control unit 230 V/12 V	09 2701 25 04	230 V AC	10 – 24 V DC	Yes
1 – 10 V control unit 230 V/230 V	09 2701 25 06	230 V AC	230 V AC	Yes

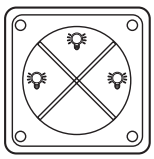
In the plastic housing of the control unit there are four slots available for the input signals, on which a 3-wire, 4-wire, 5-wire, or an 8-wire control cable to the control panels can be plugged in. The control cables are available in six length variants, each pre-assembled for direct connection to the ICS buttons, with suitable plugs on both ends.
An integrated power supply unit that also galvanically separates the ICS buttons ensures the power supply to the control unit, or it also supplies the Berker TS glass sensor.
For the consumers that will be connected, four easily accessible connection terminals (230 V AC or 10 – 24 V DC) are available, and depending on the product variant, four 1-10 V interfaces are also available for applications, such as LED or fluorescent tubes with electronic ballast. Thus a maximum of four separated switching circuits can be operated with one ICS control unit. The other input slots can be assigned for operation of consumers via equally authorised extension units.

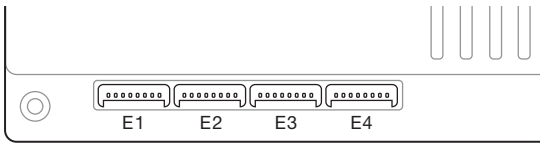
APPLICATION
NON-ILLUMINATED ICS BUTTON WITH LIGHT SYMBOL IMPRINT



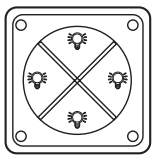


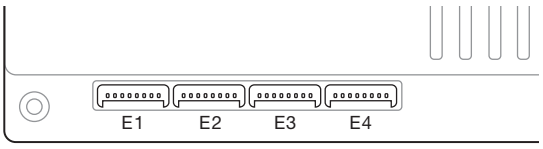
ICS button 2-gang	ICS control cable LiYY 3-wire	ICS control unit	Functions
Order no. 09 3672 25 ...	Order no. 09 2702 25 0...	Order no.: 09 2701 25 0..	2 switching circuits





ICS button 3-gang	ICS control cable LiYY 4-wire	ICS control unit	Functions
Order no. 09 3673 25 ...	Order no. 09 2704 25 0...	Order no.: 09 2701 25 0..	3 switching circuits



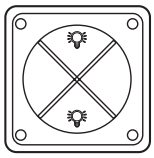


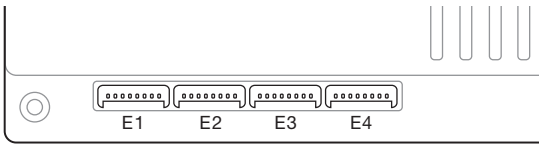
ICS button 4-gang	ICS control cable LiYY 5-wire	ICS control unit	Functions
Order no.: 09 3674 25 ..	Order no.: 09 2705 25 0..	Order no.: 09 2701 25 0..	4 switching circuits

APPLICATION

ICS BUTTON WITH BACKLIGHTING AND IMPRINT

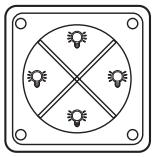
Two/four yellow LEDs behind the imprint on the button segments ensure backlighting. In operation the LEDs are continuously illuminated and provide orientation to the user.

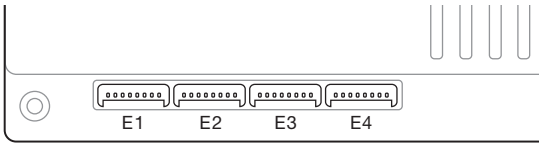




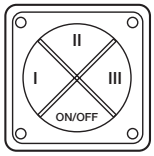
ICS button 2-gang with LED	ICS control cable LiYY 4-wire	ICS control unit	Functions
Order no. 09 3692 25 ...	Order no. 09 2703 25 0...	Order no.: 09 2701 25 0..	2 switching circuits

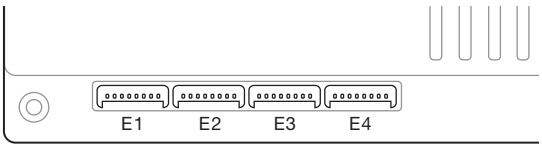
In addition to backlighting through the four yellow LEDs, the ICS 4-gang buttons with LEDs have two red LEDs that can display the status of the switching circuits 2 and 3 [1].





ICS button 4-gang with LED	ICS control cable LiYY 8-wire	ICS control unit	Functions
Order no. 09 3694 25 ...	Order no. 09 2706 25 0...	Order no.: 09 2701 25 0..	4 switching circuits





ICS button 4-gang with LED	ICS control cable LiYY 8-wire	ICS control unit	Functions
Order no.: 09 3676 25 18	Order no. 09 2706 25 0...	Order no.: 09 2701 25 0..	4 switching circuits

[1]This function is deactivated as the default situation, and it can be activated on request.

	Order no.	Packing unit

ICS INTEGRO CONTROL SYSTEM

NEW

ICS control unit 12 V/12 V

on page T5

	Order no.	Packing unit
black	*09 2701 25 01	1

Operating voltage 10 - 24 V=;
Switching voltage 10 - 24 V=;
Switching capacity outputs 1 -4 max. 50 W/VA;
Power consumption (standby) < 200 mW;
Dimensions housing (W x H x D) 251 x 130 x 43 mm;
Ambient temperature -25 - +40 °C;
RMD 14 modules;
Assembling height as from DIN rail 47 mm;
Weight approx. 700 g

Note:
a separate adapter is necessary for DIN rail mounting (mounting rail holder TSH 35-2 from Bopla).

Automotive Directive 72/245, as amended 2009/19/EC
DIN EN 55015 (emissions)
DIN EN 61547 (interference immunity)

- with separate mains power supply
- short-circuit-proof and overload proof (thermal protection)
- with 4 inputs for ICS push-button or TS Sensor
- with 4 potential-free outputs
- Outputs with switching and dimming function (short/long button-press)
- Outputs dimmable via pulse-wave modulation (PWM)
- simply storage of the dim value per output
- Power increase through parallel connection of 2 outputs (up to 100 W max.)
- Expansion to 8 inputs/outputs possible through networking with a second ICS control unit via LIN bus (on request)
- individual expansions possible, e.g with LIN bus interface
- microprocessor controlled mode of operation
- with updatable flash memory for configuration
- Saving of light scenes possible on request
- DIN rail mounting possible
- built-on/built-in
- with screw terminals for power supply and load connection
- with 4 connection sockets for control cables, type Stocko MKS 3738 or Lumberg 2.5 MSF 08

NEW

ICS control unit 230 V/12 V

on page T5

	Order no.	Packing unit
black	*09 2701 25 03	1

Operating voltage 230 V~;
Frequency 50 Hz;
Switching voltage 10 - 24 V=;
Switching capacity outputs 1 -4 max. 50 W/VA;
Power consumption (standby) < 1 W;
Dimensions housing (W x H x D) 251 x 130 x 43 mm;
Ambient temperature -25 - +40 °C;
RMD 14 modules;
Assembling height as from DIN rail 47 mm;
Weight approx. 700 g

Note:
a separate adapter is necessary for DIN rail mounting (mounting rail holder TSH 35-2 from Bopla).

DIN EN 55015 (emissions)
DIN EN 61000 (emissions)
DIN EN 61547 (interference immunity)

VDE - Approval D

- with integral power supply
- with separate mains power supply
- short-circuit-proof and overload proof (thermal protection)
- with 4 inputs for ICS push-button or TS Sensor
- with 4 potential-free outputs
- Outputs with switching and dimming function (short/long button-press)
- Outputs dimmable via phase cut-off process
- simply storage of the dim value per output
- Power increase through parallel connection of 2 outputs (up to 100 W max.)
- Expansion to 8 inputs/outputs possible through networking with a second ICS control unit via LIN bus (on request)
- individual expansions possible, e.g with LIN bus interface
- microprocessor controlled mode of operation
- with updatable flash memory for configuration
- Saving of light scenes possible on request
- DIN rail mounting possible
- built-on/built-in
- with screw terminals for power supply and load connection
- with 4 connection sockets for control cables, type Stocko MKS 3738 or Lumberg 2.5 MSF 08

	Order no.	Packing unit

NEW

ICS control unit 230 V/230 V

on page T5

	Order no.	Packing unit
black	*09 2701 25 05	1

Operating voltage 230 V~;
Frequency 50 Hz;
Switching voltage 230 V~;
Switching capacity outputs 1 -4 max. 50 W/VA;
Power consumption (standby) < 1 W;
Dimensions housing (W x H x D) 251 x 130 x 43 mm;
Ambient temperature -25 - +40 °C;
RMD 14 modules;
Assembling height as from DIN rail 47 mm;
Weight approx. 700 g

Note:
a separate adapter is necessary for DIN rail mounting (mounting rail holder TSH 35-2 from Bopla).

DIN EN 55015 (emissions)
DIN EN 61000 (emissions)
DIN EN 61547 (interference immunity)

VDE - Approval D

- with integral power supply
- with separate mains power supply
- short-circuit-proof and overload proof (thermal protection)
- with 4 inputs for ICS push-button or TS Sensor
- with 4 potential-free outputs
- Outputs with switching and dimming function (short/long button-press)
- simply storage of the dim value per output
- Power increase through parallel connection of 2 outputs (up to 100 W max.)
- Expansion to 8 inputs/outputs possible through networking with a second ICS control unit via LIN bus (on request)
- expandable by universal, LV and Tronic power boosters
- individual expansions possible, e.g with LIN bus interface
- microprocessor controlled mode of operation
- with updatable flash memory for configuration
- Saving of light scenes possible on request
- DIN rail mounting possible
- built-on/built-in
- with screw terminals for power supply and load connection
- with 4 connection sockets for control cables, type Stocko MKS 3738 or Lumberg 2.5 MSF 08

ICS 1 - 10 V control units

NEW

ICS 1 - 10 V control unit 12 V/12 V

on page T5

	Order no.	Packing unit
black	*09 2701 25 02	1

Operating voltage 10 - 24 V=;
Switching voltage 10 - 24 V=;
Switching capacity outputs 1 -4 max. 50 W/VA;
Power consumption (standby) < 200 mW;
Dimensions housing (W x H x D) 251 x 130 x 43 mm;
Ambient temperature -25 - +40 °C;
RMD 14 modules;
Assembling height as from DIN rail 47 mm;
Weight approx. 700 g

Note:
a separate adapter is necessary for DIN rail mounting (mounting rail holder TSH 35-2 from Bopla).

Automotive Directive 72/245, as amended 2009/19/EC
DIN EN 55015 (emissions)
DIN EN 61547 (interference immunity)

- with separate mains power supply
- short-circuit-proof and overload proof (thermal protection)
- with 4 inputs for ICS push-button or TS Sensor
- with 4 potential-free outputs
- Outputs with switching and dimming function (short/long button-press)
- simply storage of the dim value per output
- Power increase through parallel connection of 2 outputs (up to 100 W max.)
- Expansion to 8 inputs/outputs possible through networking with a second ICS control unit via LIN bus (on request)
- with 4 interfaces 1 - 10 V
- individual expansions possible, e.g with LIN bus interface
- microprocessor controlled mode of operation
- with updatable flash memory for configuration
- Saving of light scenes possible on request
- DIN rail mounting possible
- built-on/built-in
- with screw terminals for power supply, load connection and 1 - 10 V interfaces
- with 4 connection sockets for control cables, type Stocko MKS 3738 or Lumberg 2.5 MSF 08

	Order no.	Packing unit

NEW

on page T5

ICS 1 - 10 V control unit 230 V/12 V

black ***09 2701 25 04** 1

Operating voltage 230 V~;
Frequency 50 Hz;
Switching voltage 10 - 24 V=;
Switching capacity outputs 1 -4 max. 50 W/VA;
Power consumption (standby) < 1 W;
Dimensions housing (W x H x D) 251 x 130 x 43 mm;
Ambient temperature -25 - +40 °C;
RMD 14 modules;
Assembling height as from DIN rail 47 mm;
Weight approx. 700 g

Note:
a separate adapter is necessary for DIN rail mounting (mounting rail holder TSH 35-2 from Bopla).

DIN EN 55015 (emissions)
DIN EN 61000 (emissions)
DIN EN 61547 (interference immunity)

VDE - Approval D

- with integral power supply
- with separate mains power supply
- short-circuit-proof and overload proof (thermal protection)
- with 4 inputs for ICS push-button or TS Sensor
- with 4 potential-free outputs
- Outputs with switching and dimming function (short/long button-press)
- simply storage of the dim value per output
- Power increase through parallel connection of 2 outputs (up to 100 W max.)
- Expansion to 8 inputs/outputs possible through networking with a second ICS control unit via LIN bus (on request)
- with 4 interfaces 1 - 10 V
- individual expansions possible, e.g with LIN bus interface
- microprocessor controlled mode of operation
- with updatable flash memory for configuration
- Saving of light scenes possible on request
- DIN rail mounting possible
- built-on/built-in
- with screw terminals for power supply, load connection and 1 - 10 V interfaces
- with 4 connection sockets for control cables, type Stocko MKS 3738 or Lumberg 2.5 MSF 08

NEW

on page T5

ICS 1 - 10 V control unit 230 V/230 V

black ***09 2701 25 06** 1

Operating voltage 230 V~;
Frequency 50 Hz;
Switching voltage 230 V~;
Switching capacity outputs 1 -4 max. 50 W/VA;
Power consumption (standby) < 1 W;
Dimensions housing (W x H x D) 251 x 130 x 43 mm;
Ambient temperature -25 - +40 °C;
RMD 14 modules;
Assembling height as from DIN rail 47 mm;
Weight approx. 700 g

Note:
a separate adapter is necessary for DIN rail mounting (mounting rail holder TSH 35-2 from Bopla).

DIN EN 55015 (emissions)
DIN EN 61000 (emissions)
DIN EN 61547 (interference immunity)

VDE - Approval D

- with integral power supply
- with separate mains power supply
- short-circuit-proof and overload proof (thermal protection)
- with 4 inputs for ICS push-button or TS Sensor
- with 4 potential-free outputs
- Outputs with switching and dimming function (short/long button-press)
- simply storage of the dim value per output
- Power increase through parallel connection of 2 outputs (up to 100 W max.)
- Expansion to 8 inputs/outputs possible through networking with a second ICS control unit via LIN bus (on request)
- with 4 interfaces 1 - 10 V
- individual expansions possible, e.g with LIN bus interface
- microprocessor controlled mode of operation
- with updatable flash memory for configuration
- Saving of light scenes possible on request
- DIN rail mounting possible
- built-on/built-in
- with screw terminals for power supply, load connection and 1 - 10 V interfaces
- with 4 connection sockets for control cables, type Stocko MKS 3738 or Lumberg 2.5 MSF 08

	Order no.	Packing unit

ICS PUSH-BUTTONS

NEW

ICS push-button 2gang with imprinted light symbol

anthracite, matt	*09 3672 25 15	50
grey, glossy	*09 3672 25 07	50
chrome, glossy	*09 3672 25 18	50

on page T5

Rated voltage 12 V=;
Rated current 4 - 50 mA

- with imprinted symbol light
- for connection to ICS control units
- Connection via 5pole pin contact strip with 2.5 mm grid

NEW

ICS push-button 3gang with imprinted light symbol

anthracite, matt	*09 3673 25 15	50
grey, glossy	*09 3673 25 07	50
chrome, glossy	*09 3673 25 18	50

on page T5

Rated voltage 12 V=;
Rated current 4 - 50 mA

- with imprinted symbol light
- for connection to ICS control units
- Connection via 5pole circuit board direct connector with 2.5 mm grid

NEW

ICS push-button 4gang with imprinted light symbol

anthracite, matt	*09 3674 25 15	50
grey, glossy	*09 3674 25 07	50
chrome, glossy	*09 3674 25 18	50

on page T5

Rated voltage 12 V=;
Rated current 4 - 50 mA

- with imprinted symbol light
- for connection to ICS control units
- Connection via 5pole pin contact strip with 2.5 mm grid

NEW

ICS push-button 2gang illuminated, with imprinted light symbol

grey, glossy	*09 3692 25 07	50
chrome, glossy	*09 3692 25 18	50

on page T5

Rated voltage 12 V=;
Rated current 4 - 50 mA

Background lighting in additional colours possible on request.

- with imprinted symbol light
- with 2 yellow LEDs for background lighting
- for connection to ICS control units
- Connection via 5pole pin contact strip with 2.5 mm grid

NEW

ICS push-button 4gang illuminated, with imprinted light symbol

grey, glossy	*09 3694 25 07	50
chrome, glossy	*09 3694 25 18	50

on page T5

Rated voltage 12 V=;
Rated current 4 - 50 mA

Background lighting in additional colours possible on request.

- with imprinted symbol light
- with 4 yellow LEDs for background lighting
- optional function display possible via status LEDs
- for connection to ICS control units
- Connection via 8pole pin contact strip with 2.5 mm grid

NEW

ICS push-button 4gang illuminated, with imprint „I“, „II“, „III“, „ON/OFF“

chrome, glossy	*09 3676 25 18	50

on page T5

Rated voltage 12 V=;
Rated current 4 - 50 mA

Background lighting in additional colours possible on request.

- with imprint „I“, „II“, „III“ and „ON / OFF“
- with 4 yellow LEDs for background lighting
- optional function display possible via status LEDs
- for connection to ICS control units
- Connection via 8pole pin contact strip with 2.5 mm grid

ICS CONTROL CABLES

NEW

ICS control cable LiYY 3-core

Length: 1.0 m	*09 2702 25 00	1
Length: 2.0 m	*09 2702 25 01	1
Length: 3.0 m	*09 2702 25 02	1
Length: 5.0 m	*09 2702 25 03	1
Length: 7.5 m	*09 2702 25 04	1
Length: 10.0 m	*09 2702 25 05	1

on page T5

Max. operating voltage 250 V;
Conductor cross-section 3 x 0.25 mm²;
External diameter approx. 4.1 mm;
Bending radius 15x External diam.;
Temperature range (stationary) -30 - +70 °C;
Temperature range (in motion) -5 - +70 °C

Not suitable for power current purposes!

For ICS control unit 12 V / 12 V 0927 01 25 01
For ICS control unit 230 V / 12 V 0927 01 25 02
For ICS control unit 230 V / 230 V 0927 01 25 03
For ICS 1 - 10 V control unit 12 V / 12 V 0927 01 25 04
For ICS 1 - 10 V control unit 230 V / 12 V 0927 01 25 05
For ICS 1 - 10 V control unit 230 V / 230 V 0927 01 25 06
For ICS push-button 2gang with imprinted light symbol 0936 72 25 ..

Core insulation and cladding according to VDE 0207
Colour code according to DIN 47100

- pre-assembled with Stocko connector housing MKH 5138-1-0-800 and Stocko connector MKF 13265-6-0-505
- with fine-wire copper cable

	Order no.	Packing unit

NEW

on page T5

ICS control cable LiYY 4-core

Length: 1.0 m	*09 2703 25 00	1
Length: 2.0 m	*09 2703 25 01	1
Length: 3.0 m	*09 2703 25 02	1
Length: 5.0 m	*09 2703 25 03	1
Length: 7.5 m	*09 2703 25 04	1
Length: 10.0 m	*09 2703 25 05	1

Max. operating voltage 250 V;
Conductor cross-section 4 x 0.25 mm²;
External diameter approx. 4.4 mm;
Bending radius 15x External diam.;
Temperature range (stationary) -30 - +70 °C;
Temperature range (in motion) -5 - +70 °C

Not suitable for power current purposes!

For ICS control unit 12 V / 12 V 0927 01 25 01
For ICS control unit 230 V / 12 V 0927 01 25 02
For ICS control unit 230 V / 230 V 0927 01 25 03
For ICS 1 - 10 V control unit 12 V / 12 V 0927 01 25 04
For ICS 1 - 10 V control unit 230 V / 12 V 0927 01 25 05
For ICS 1 - 10 V control unit 230 V / 230 V 0927 01 25 06
For ICS push-button 2gang illuminated, with imprinted light symbol 0936 92 25 ..

Core insulation and cladding according to VDE 0207
Colour code according to DIN 47100

- pre-assembled with Stocko connector housing MKH 5138-1-0-800 and Stocko connector MKF 13265-6-0-505
- with fine-wire copper cable

NEW

on page T5

ICS control cable LiYY 4-core

Length: 1.0 m	*09 2704 25 00	1
Length: 2.0 m	*09 2704 25 01	1
Length: 3.0 m	*09 2704 25 02	1
Length: 5.0 m	*09 2704 25 03	1
Length: 7.5 m	*09 2704 25 04	1
Length: 10.0 m	*09 2704 25 05	1

Max. operating voltage 250 V;
Conductor cross-section 4 x 0.25 mm²;
External diameter approx. 4.4 mm;
Bending radius 15x External diam.;
Temperature range (stationary) -30 - +70 °C;
Temperature range (in motion) -5 - +70 °C

Not suitable for power current purposes!

For ICS control unit 12 V / 12 V 0927 01 25 01
For ICS control unit 230 V / 12 V 0927 01 25 02
For ICS control unit 230 V / 230 V 0927 01 25 03
For ICS 1 - 10 V control unit 12 V / 12 V 0927 01 25 04
For ICS 1 - 10 V control unit 230 V / 12 V 0927 01 25 05
For ICS 1 - 10 V control unit 230 V / 230 V 0927 01 25 06
For ICS push-button 3gang with imprinted light symbol 0936 73 25 ..

Core insulation and cladding according to VDE 0207
Colour code according to DIN 47100

- pre-assembled with Stocko connector housing MKH 5138-1-0-800 and Stocko connector MFVV 7238-005-W60
- with fine-wire copper cable

NEW

on page T5

ICS control cable LiYY 5-core

Length: 1.0 m	*09 2705 25 00	1
Length: 2.0 m	*09 2705 25 01	1
Length: 3.0 m	*09 2705 25 02	1
Length: 5.0 m	*09 2705 25 03	1
Length: 7.5 m	*09 2705 25 04	1
Length: 10.0 m	*09 2705 25 05	1

Max. operating voltage 250 V;
Conductor cross-section 5 x 0.25 mm²;
External diameter approx. 4.7 mm;
Bending radius 15x External diam.;
Temperature range (stationary) -30 - +70 °C;
Temperature range (in motion) -5 - +70 °C

Not suitable for power current purposes!

For ICS control unit 12 V / 12 V 0927 01 25 01
For ICS control unit 230 V / 12 V 0927 01 25 02
For ICS control unit 230 V / 230 V 0927 01 25 03
For ICS 1 - 10 V control unit 12 V / 12 V 0927 01 25 04
For ICS 1 - 10 V control unit 230 V / 12 V 0927 01 25 05
For ICS 1 - 10 V control unit 230 V / 230 V 0927 01 25 06
For ICS push-button 4gang with imprinted light symbol 0936 74 25 ..

Core insulation and cladding according to VDE 0207
Colour code according to DIN 47100

- pre-assembled with Stocko connector housing MKH 5138-1-0-800 and Stocko connector MKF 13265-6-0-505
- with fine-wire copper cable

NEW

on page T5

ICS control cable LiYY 8-core

Length: 1.0 m	*09 2706 25 00	1
Length: 2.0 m	*09 2706 25 01	1
Length: 3.0 m	*09 2706 25 02	1
Length: 5.0 m	*09 2706 25 03	1
Length: 7.5 m	*09 2706 25 04	1
Length: 10.0 m	*09 2706 25 05	1

Max. operating voltage 250 V;
Conductor cross-section 8 x 0.25 mm²;
External diameter approx. 5.7 mm;
Bending radius 15x External diam.;
Temperature range (stationary) -30 - +70 °C;
Temperature range (in motion) -5 - +70 °C

Not suitable for power current purposes!

For ICS control unit 12 V / 12 V 0927 01 25 01
For ICS control unit 230 V / 12 V 0927 01 25 02
For ICS control unit 230 V / 230 V 0927 01 25 03
For ICS 1 - 10 V control unit 12 V / 12 V 0927 01 25 04
For ICS 1 - 10 V control unit 230 V / 12 V 0927 01 25 05
For ICS 1 - 10 V control unit 230 V / 230 V 0927 01 25 06
For ICS push-button 4gang illuminated, with imprint „I“, „II“, „III“, „ON/OFF“ 0936 76 25 18
For ICS push-button 4gang with imprinted light symbol order no. 0936 94 25 ..

Core insulation and cladding according to VDE 0207
Colour code according to DIN 47100

- pre-assembled with Stocko connector housing MKH 5138-1-0-800 and Stocko connector MKF 13268-6-0-808
- with fine-wire copper cable

	Order no.	Packing unit

BUILT-IN POWER BOOSTERS

LV power booster built-in

polar white **2869** 1

230 V~, 50 Hz
230 V incandescent and halogen lamps 100 - 600 W;
Dimmable conventional transformers 100 - 600 VA;
Dimensions (L x W x H) 212 x 48.5 x 46 mm

In case of excessive switch-on currents use switch-on 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

Tronic power booster built-in

polar white **2868** 1

230 V~, 50/60 Hz
230 V incandescent and halogen lamps 100 - 700 W;
Electronic transformers 100 - 700 W;
Dimensions (L x W x H) 212 x 48.5 x 46 mm

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

Neutral conductor necessary!

- bulb-preserving soft startup
- very low noise
- short-circuit and overload proof (electronic fuse)
- phase cut-off
- with screw terminals

Universal power booster RMD Plus

light grey **0165 01** 1

230/240 V~, 50/60 Hz
230 V incandescent and halogen lamps 200 - 500 W;
Electronic transformers 200 - 500 W;
Dimmable conventional transformers 200 - 420 VA;
Load cable length max. 100 m;
Control line length max. 100 m;
RMD 2 modules;
Dimensions (W x H x D) 36 x 90 x 70 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.

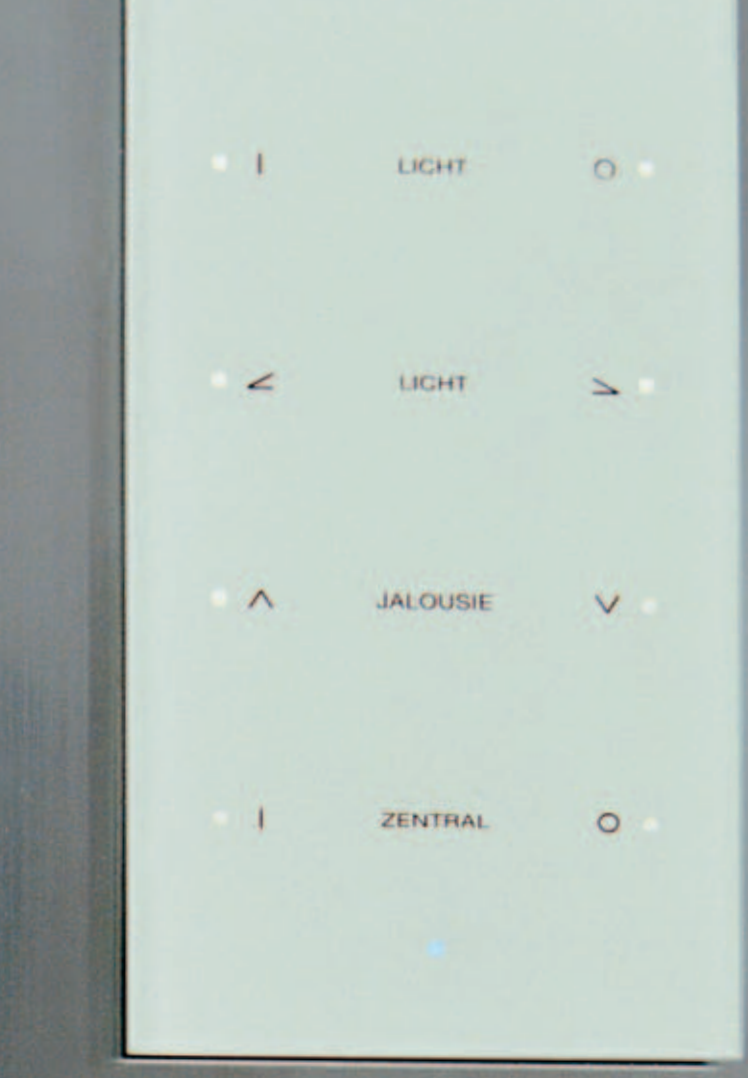
When using multiple dimmer or power boosters with a control cabinet, maintain a minimum spacing of 1 module width.

- common load switching for dimmer and booster
- with selectable brightness memory
- bulb-preserving soft startup
- very low noise
- short-circuit and overload proof (electronic fuse)
- phase cut-on or cut-off according to load type, self-learning
- with screw terminals

Glass, glossy, imprinted on the rear

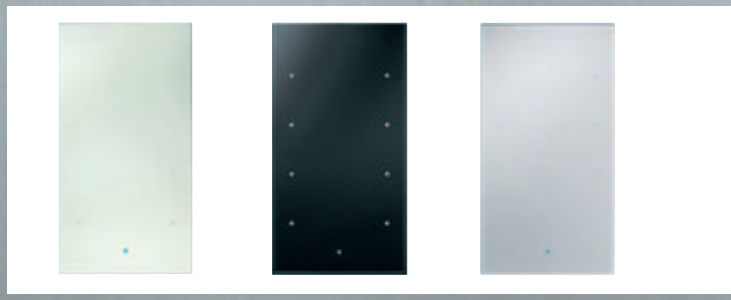
Glass, polar white	similar to RAL 9010
Glass, black	similar to RAL 9005
Glass, alu	similar to RAL 9006

Ordering and configuration instructions 64
Installation and mounting instructions 65
Glass sensors 66-67
Accessories 68



BERKER TS SENSOR

Special range
Flush-mounted/built-in system



With the Berker TS Sensor a gentle touch of the flawless surface is all that is needed to control lighting. Completely reduced to a simple smooth surface, this control concept is ideal for especially demanding projects.

- Suitable for ICS control units, relay circuits and installation bus systems
- Electronics are placed directly on the rear of the glass plate for exceptional switching reliability
- LEDs can be used to show readiness for operation and to display switching states
- Especially flat design allows on-wall mounting
- 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
- Customized: pre-defined symbols, colours and labelling can be selected via Web Configurator. For further information, see next page and www.berker.com/ts-sensor
  Caution: configuration can no longer be changed after the order is placed
- Manufacturing: Individual design with free selection of fonts colours and symbols. Contact our industrial sales organization in this regard.

DESIGN POSSIBILITIES

BASIC

The product variants of the Berker TS Sensor can be ordered as a catalogue model in unprinted form with a choice of three background colours: polar white, aluminium and black.

CUSTOMIZED

The TS Sensor can be designed in a multitude of ways to meet even the most varied customer needs. The innovative product enables the rear of the glass plate to be imprinted with text and symbols to identify the operating functions. This is where they are ideally protected against dirt, wear and damage.

This concept means, however, that the functions planned for each control panel must be defined together with the customer before ordering. After that, the selected labelling and symbols can no longer be changed, because printing is carried out only once at the time of production.

It is this simple:

1

Complete planning for the installations
- Functions of each control panel are permanently defined

2

Create an individual design using the Web Configurator at **www.berker.com/ts-sensor**
- Fill in the layout templated with symbols/texts
- Saving a design on the Berker server

3

Order the sensor
- Berker sends a design number
- Place order

MANUFACTURE

The Web Configurator already offers a wide range of customisation options. If, however, this should still not cover your customers‘ 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 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 our industrial sales organization.

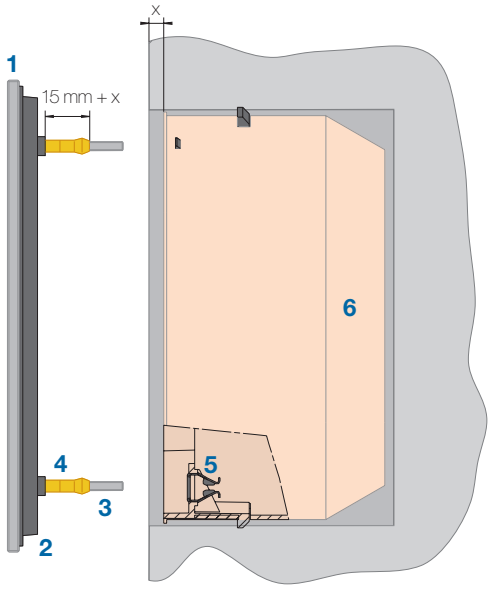
The glass sensors from Berker TS can be connected to the control units of the Integro Control System (ICS) via the adapter for KNX/EIB and relay (accessory), or as part of the technical specifications on relay circuits. With the four product variants (1-gang to 4-gang) up to eight sensor surfaces can be individually assigned.
The TS Sensor has a blue operating LED and a white LED per sensor surface. We recommend that this white LED be operated in the factory setting so that the LED is illuminated for the duration of activation and thus acknowledges that the connected system has received a pulse.

PREPARATIONS

Regardless of the application, we recommend that you install the Berker TS Sensor in the 2-gang wall box for glass sensor. The wall box has the required clamp mechanism for the glass plate and offers sufficient space for the adapter and the wiring.
In addition the glass sensor must be supplied with power that it gets either via the ICS control unit or via a separate industrial/customer-provided power supply.
In addition to the glass plate, the scope of delivery also includes a ribbon cable (approx. 20 cm in length) and the dismantling aid with suction cups.

MOUNTING

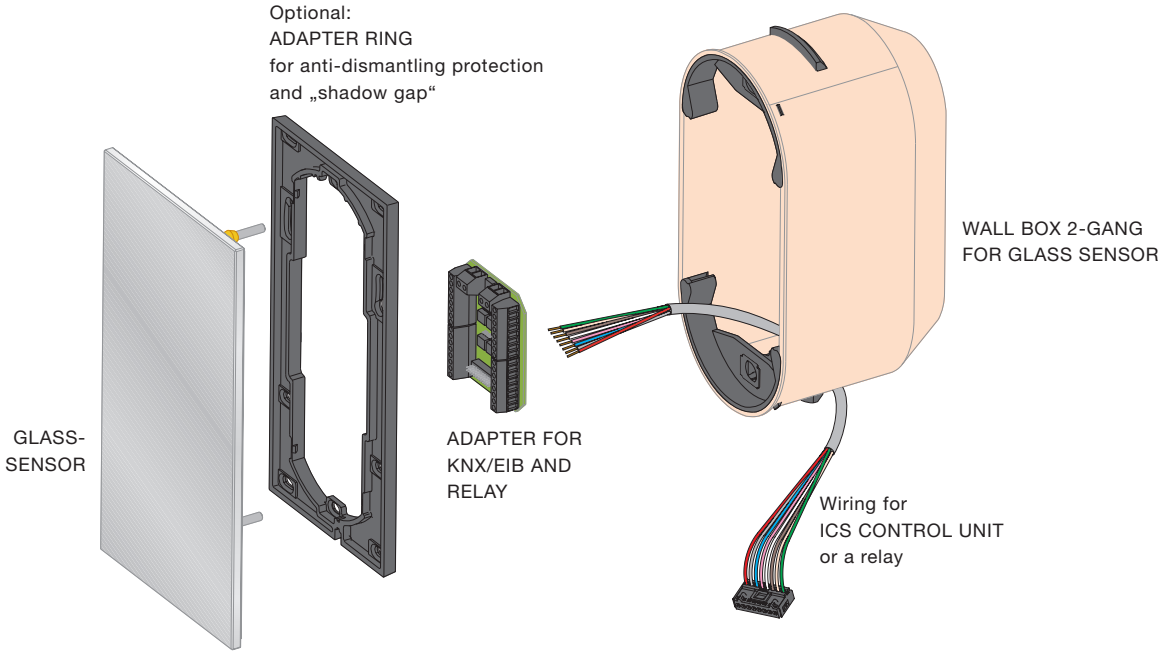
The glass sensor can be installed on the wall box (6) and seated on the wall. The supplied adapter ring (2) increases the space between the wall and the sensor plate. It gives the otherwise insubstantial effect of the glass plate discrete contours. Technically it is intended for special installation conditions, such as mounting without wall box in a hollow wall and increased dismantling protection. The glass plate (1) is simply locked into the clamp springs (5) of the wall box with the retaining pins (4) on the set screws (3), without tools. Installation depth or unevenness of the wall can be compensated to 20 mm via the adjustable retaining tabs.



DISMANTLING

The dismantling aid with suction cups that is included in the scope of delivery makes it possible to easily pull the glass plate out of the clamping springs of the wall box.

INSTALLATION



	Order no.	Packing unit

GLASS SENSORS

on page T7

Glass sensor 1gang

	Order no.	Packing unit
glass, polar white	**1681 09**	1
glass, black	**1681 05**	1
glass, aluminium	**1681 07**	1
glass, polar white, configured	**1691 09**	1
glass, black, configured	**1691 05**	1
glass, aluminium, configured	**1691 07**	1

Operating voltage 8 - 30 V=;
Current consumption (operation) approx. 20 mA;
Switching voltage max. 30 V=;
Switching current max. 10 mA;
LED input voltage max. 5 V=;
LED input current max. 1 mA;
Surface adjustment 20 mm

When wired with an ICS control unit, glass sensor 1gang performs the scope of functions of an ICS push-button 2gang.

For production-related reasons, with polar white there are colour deviations from the existing glass ranges.

Many options for printing see Web Configurator under www.berker.de/ts-glas-sensor.

Customized glass sensors can only be ordered with an order number supplemented by the Web Configurator.

Flush wall-mounting possible with wall box 2gang for glass sensor order no. 1870
For adapter for KNX/EIB and relay order no. 7590 00 32

- operation by gently touching the sensor surfaces on the white LED
- the blue LED can be set for continuously ON or continuously OFF
- the white LED can be set for Sensor operation
- with adapter ring for disassembly protection, shadow jointing and special installation conditions
- for vertical mounting
- with disassembly suction tool

on page T7

Glass sensor 2gang

	Order no.	Packing unit
glass, polar white	**1682 09**	1
glass, black	**1682 05**	1
glass, aluminium	**1682 07**	1
glass, polar white, configured	**1692 09**	1
glass, black, configured	**1692 05**	1
glass, aluminium, configured	**1692 07**	1

Operating voltage 8 - 30 V=;
Current consumption (operation) approx. 26 mA;
Switching voltage max. 30 V=;
Switching current max. 10 mA;
LED input voltage max. 5 V=;
LED input current max. 1 mA;
Surface adjustment 20 mm

When wired with an ICS control unit, glass sensor 2gang performs the scope of functions of an ICS push-button 4gang.

For production-related reasons, with polar white there are colour deviations from the existing glass ranges.

Many options for printing see Web Configurator under www.berker.de/ts-glas-sensor.

Customized glass sensors can only be ordered with an order number supplemented by the Web Configurator.

Flush wall-mounting possible with wall box 2gang for glass sensor order no. 1870
For adapter for KNX/EIB and relay order no. 7590 00 32

- operation by gently touching the sensor surfaces on the white LED
- the blue LED can be set for continuously ON or continuously OFF
- the white LED can be set for Sensor operation
- with adapter ring for disassembly protection, shadow jointing and special installation conditions
- for vertical mounting
- with disassembly suction tool

	Order no.	Packing unit

on page T7

Glass sensor 3gang

glass, polar white	**1683 09**	1
glass, black	**1683 05**	1
glass, aluminium	**1683 07**	1
glass, polar white, configured	**1693 09**	1
glass, black, configured	**1693 05**	1
glass, aluminium, configured	**1693 07**	1

Operating voltage 8 - 30 V=;
Current consumption (operation) approx. 32 mA;
Switching voltage max. 30 V=;
Switching current max. 10 mA;
LED input voltage max. 5 V=;
LED input current max. 1 mA;
Surface adjustment 20 mm

For the maximum expansion stage the glass sensor 3gang should be wired with two ICS control units. When wired with two ICS control units, glass sensor 3gang performs the scope of functions of an ICS push-button 4gang and 2gang.

For production-related reasons, with polar white there are colour deviations from the existing glass ranges.

Many options for printing see Web Configurator under www.berker.de/ts-glas-sensor.

Customized glass sensors can only be ordered with an order number supplemented by the Web Configurator.

Flush wall-mounting possible with wall box 2gang for glass sensor order no. 1870
For adapter for KNX/EIB and relay order no. 7590 00 32

- 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 continuously OFF
- the white LED can be set for Sensor operation
- with adapter ring for disassembly protection, shadow jointing and special installation conditions
- for vertical mounting
- with disassembly suction tool

	Order no.	Packing unit

on page T7

Glass sensor 4gang

glass, polar white	**1684 09**	1
glass, black	**1684 05**	1
glass, aluminium	**1684 07**	1
glass, polar white, configured	**1694 09**	1
glass, black, configured	**1694 05**	1
glass, aluminium, configured	**1694 07**	1

Operating voltage 8 - 30 V=;
Current consumption (operation) approx. 38 mA;
Switching voltage max. 30 V=;
Switching current max. 10 mA;
LED input voltage max. 5 V=;
LED input current max. 1 mA;
Surface adjustment 20 mm

For the maximum expansion stage the glass sensor 4gang should be wired with two ICS control units. When wired with two ICS control units, glass sensor 4gang performs the scope of functions of two ICS push-button 4gang.

For production-related reasons, with polar white there are colour deviations from the existing glass ranges.

Many options for printing see Web Configurator under www.berker.de/ts-glas-sensor.

Customized glass sensors can only be ordered with an order number supplemented by the Web Configurator.

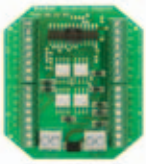
Flush wall-mounting possible with wall box 2gang for glass sensor order no. 1870
For adapter for KNX/EIB and relay order no. 7590 00 32

- 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 continuously OFF
- the white LED can be set for Sensor operation
- with adapter ring for disassembly protection, shadow jointing and special installation conditions
- for vertical mounting
- with disassembly suction tool

	Order no.	Packing unit		Order no.	Packing unit

ACCESSORIES

Adapters



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Adapter for KNX/EIB and relay

7590 00 32 1

For ICS control unit 12 V / 12 V 0927 01 25 01
For ICS control unit 230 V / 12 V 0927 01 25 02
For ICS control unit 230 V / 230 V 0927 01 25 03
For ICS 1 - 10 V control unit 12 V / 12 V 0927 01 25 04
For ICS 1 - 10 V control unit 230 V / 12 V
order no. 0927 01 25 05
For ICS 1 - 10 V control unit 230 V / 230 V
order no. 0927 01 25 06

- for wiring with universal interfaces, radio push-button interfaces, ICS control units or conventional relay/PLC

Wall boxes

Wall box 2gang for glass sensor

1870 1

Dimensions (W x H x D) 68 x 139 x 75 mm;
Cut hole diameter 2 x 68 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 flush mounting and hollow-wall mounting
- flush wall-mounting or with adapter ring

	Order no.	Packing unit		Order no.	Packing unit

Overview built-in socket outlets 72
Overview (built-in) socket outlets Integro 73
Built-in Schuko socket outlets 74-78
Built-in socket outlets with earth pin 78
Built-in socket outlets without earth contact 79

BUILT-IN SOCKET OUTLETS

Industrial built-in range
Built-in system

Laboratory furniture, mirror cabinets, tools, machines - frequently where a power connection is required there is no space remaining for a regular socket outlet. This is why our special built-in socket outlets are designed so compact. They satisfy the requirements of a future-oriented electrical installation, and they fit even where space is at a premium. Thanks to the installation-friendly ”SNAP IN“ fixing they can be effortlessly implemented even in difficult install situations.

- Particularly well-suited for use in special furniture
- Easy installation with standard tools
- Minimum insertion depths, compact design
- In some cases equipped with a special mounting mechanism - ”SNAP IN“ for different wall thicknesses
- Special applications, such as IP44 installation possible

BUILT-IN SOCKET OUTLETS	CENTRE PLATES					SUPPLEMENTAL FEATURES						CON-NECTION			SPECIAL FASTENING					MORE INFO	
	Ø 50 mm round	50 x 50 mm	55.5 x 55.5 mm	Hinged cover 50 x 60 mm	Hinged cover 59.5 x 59.5 mm	Enhanced contact protection	Splash-protected - IP44	Imprint "IP44"	Base rotated 180°	45° rotated	With control LED	Screw terminal	Plug-in terminal	Fast-on terminal connection	Via supporting ring [1]	Via base	Via supporting angle	Via centre plate	Via expansion domes	Dimensional drawing [Page, section]	Product description [Page]
BUILT-IN SCHUKO SOCKET OUTLETS																					
with hinged cover				■								■								T9, 4.1.1	74
with hinged cover, imprint IP44				■			■					■								T9, 4.1.1	74
				■			■	■				■								T9, 4.1.1	74
"SNAP IN" 0.6 - 1.5 mm	■											■								T9, 4.1.2	74
		■										■								T9, 4.1.4	75
		■ [2]										■								T9, 4.1.5	75
	■													■						T9, 4.1.3	75
"SNAP IN" 1.3–2.2 mm			■			■				■		■								T9, 4.1.6	75
				■			■	■		■		■								T10, 4.1.7	75
"SNAP IN" 2 mm	■											■								T9, 4.1.2	75
				■			■	■					■							T10, 4.1.8	75
"SNAP IN" 2.5 mm	■											■								T9, 4.1.2	76
	■												■							T10, 4.1.9	76
	■					■							■							T10, 4.1.9	76
"SNAP IN" 3 mm	■											■								T9, 4.1.2	76
		■										■								T9, 4.1.4	76
"SNAP IN" 3.5 mm	■												■							T10, 4.1.9	76
"SNAP IN" 4 mm	■											■								T9, 4.1.2	77
		■										■								T10, 4.1.10	77
				■			■	■					■							T10, 4.1.8	77
Special fixing type	■											■				■				T10, 4.1.11	77
		■										■					■			T10, 4.1.12	77
			■									■							■	T11, 4.1.13	77
	■											■			■					T11, 4.1.14	77
	■												■		■					T11, 4.1.14	78
BUILT-IN SOCKET OUTLETS WITH EARTH PIN																					
"SNAP IN" 0.6–1.5 mm	■					■						■								T11, 4.2.1	78
		■				■						■								T11, 4.2.2	78
"SNAP IN" 2.5 mm	■					■						■								T11, 4.2.1	78
"SNAP IN" 3 mm		■				■						■								T11, 4.2.2	78
Special fixings	■					■						■			■					T11, 4.2.3	78
BUILT-IN SOCKET OUTLETS WITHOUT EARTH CONTACT																					
"SNAP IN" 3 mm		■				■						■								T11, 4.3.1	79

[1] without spreader claws

[2] Minimal installation depth 33.9 mm

An overview of additional (built-in) socket outlets is provided below; these socket outlets are available in the designs (geometry, surface, and dimensions) of Berker Integro Flow, Classic and Pure, as well as in different colour variants and they are suitable for other products in the Berker Integro designs. Detailed product descriptions with corresponding order information are provided in the Module inserts chapter.

SOCKET OUTLETS	CENTRE PLATES				SUPPLEMENTAL FEATURES						CON-NECTION			SPECIAL FASTENING					MORE INFO
	Ø 50 mm round	50 x 50 mm	55.5 x 55.5 mm	Hinged cover 50 x 60 mm	Hinged cover 59.5 x 59.5 mm	Enhanced contact protection	Splash-protected - IP44	Imprint "IP44"	Base rotated 180°	45° rotated	With control LED	Screw terminal	Plug-in terminal	Fast-on terminal connection	Via supporting ring	Via base	Via supporting angle	Via centre plate	Via expansion domes	Product description [1] [Page]
SCHUKO SOCKET OUTLETS																				
"SNAP IN" 1.0 mm		■								■			■							13
		■								■		■								13
"SNAP IN" 1.8 mm		■								■			■							13
		■				■				■			■							13
		■								■		■								13
		■				■				■		■								13
"SNAP IN" 2 mm		■				■				■	■		■							14
"SNAP IN" 2.8 mm		■				■				■			■							14
Fixing via centre plate		■										■						■		12
		■											■					■		12
		■				■							■					■		12
		■				■						■						■		12
		■								■		■						■		13
SOCKET OUTLETS WITH EARTH CONTACT																				
"Switzerland", type 13		■										■						■		15
"Switzerland", type 23		■										■						■		15
"Italy"		■				■						■						■		15
"British Standard"		■				■						■						■		16
"Denmark""		■				■						■						■		15
"USA/CANADA" 15 A, 125 V		■										■		■				■		14
"Australia", 10 A		■										■						■		14
"Australia", 15 A		■										■						■		15
SOCKET OUTLETS WITH EARTH PIN																				
Special fixings		■										■						■		16
		■				■						■						■		16
SOCKET OUTLETS WITHOUT EARTH CONTACT																				
Fastening via centre plate		■										■						■		17
		■				■						■						■		17
"Euro-American standard"		■				■						■						■		17

[1]Dimensional drawings and detailed information are provided in the Technical Appendix on page T2.

	Order no.	Packing unit

BUILT-IN SCHUKO SOCKET OUTLETS

Built-in SCHUKO socket outlets with hinged cover

on page T9

Built-in SCHUKO socket outlet with hinged cover 50 x 60 mm

brown, glossy, connection from above	**09 4296 11**	10
grey, glossy, connection from below	**09 4296 03**	10
polar white, glossy, connection from above	**09 4296 19**	10
black, glossy, connection from below	**09 4296 06**	10
blue, glossy, connection from above	**09 4296 25**	10
blue, glossy, connection from below	**09 4296 05**	10
brown, glossy, connection from above	**08 4296 11**	200
polar white, glossy, connection from above	**08 4296 19**	200
black, glossy, connection from above	**08 4296 16**	200
blue, glossy, connection from above	**08 4296 25**	200
blue, glossy, connection from below	**08 4296 05**	200

16 A, 250 V~
Installation depth 31 mm

Not suitable for wall boxes.

Connection terminals according to IEC 60884-1

- contacts made of copper alloy
- duroplast base
- thermoplastic centre plate, glossy
- for 4-hole screw fitting
- with screw terminals

on page T9

Built-in SCHUKO socket outlet with hinged cover 50 x 60 mm IP44

blue, connection from below	**07 4296 35**	10

16 A, 250 V~
Installation depth 31 mm

Not suitable for wall boxes.

- with sealing
- contacts made of copper alloy
- duroplast base
- thermoplastic centre plate, glossy
- for 4-hole screw fitting
- with screw terminals

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Built-in SCHUKO socket outlet with hinged cover 50 x 60 mm IP44

grey, connection from below	**09 4296 33**	10
anthracite, connection from below	**08 4296 34**	200
polar white, glossy, connection from below	**08 4296 39**	200
black, glossy, connection from below	**08 4296 36**	200
blue, connection from below	**08 4296 15**	200

16 A, 250 V~
Installation depth 31 mm

Not suitable for wall boxes.

Connection terminals according to IEC 60884-1

- with imprint „IP44“
- with sealing
- contacts made of copper alloy
- duroplast base
- thermoplastic centre plate, glossy
- for 4-hole screw fitting
- with screw terminals

Built-in SCHUKO socket outlets „SNAP IN“

on page T9

Built-in SCHUKO socket outlet with centre plate Ø 50 mm „SNAP IN“ 0.6 - 1.5 mm

grey, matt	**4189 08**	200
light grey, matt	**4189 06**	200
white, matt	**4189 02**	200
polar white, matt	**4189 09**	200
black, matt	**4189 05**	200

16 A, 250 V~
Installation wall thickness 0.6 - 1.5 mm;
Installation depth 38.9 mm

Not suitable for wall boxes.

Connection terminals according to IEC 60884-1

- contacts made of copper alloy
- duroplast base
- thermoplastic centre plate, matt
- centre plate with twist protection
- for catch fixing
- with screw terminals

	Order no.	Packing unit

on page T9

Built-in SCHUKO socket outlet with centre plate 50 x 50 mm „SNAP IN“ 0.6 - 1.5 mm

brown, matt, Installation depth 38.9 mm	**4181 01**	200
white, matt, Installation depth 38.9 mm	**4181 02**	200
polar white, matt, Installation depth 38.9 mm	**4181 09**	200
black, matt, Installation depth 38.9 mm	**4181 05**	200
white, matt, Installation depth 33.9 mm	**4183 02**	200
black, matt, Installation depth 33.9 mm	**4183 05**	200

16 A, 250 V~
Installation wall thickness 0.6 - 1.5 mm;

Not suitable for wall boxes.

Connection terminals according to IEC 60884-1

- contacts made of copper alloy
- duroplast base
- thermoplastic centre plate, matt
- centre plate with twist protection
- for catch fixing
- with screw terminals

on page T9

Built-in SCHUKO socket outlet with centre plate Ø 50 mm „SNAP IN“ 0.6 - 1.5 mm

white, matt **4189 32** 10

16 A, 250 V~
Installation wall thickness 0.6 - 1.5 mm;
Installation depth 38.9 mm

Not suitable for wall boxes.

- contacts made of copper alloy
- duroplast base
- thermoplastic centre plate, matt
- centre plate with twist protection
- for catch fixing
- with fast-on terminal connection

on page T9

SCHUKO socket outlet 45° „SNAP IN“ 1.3-2.2 mm

grey, matt, enhanced contact protection IEC 60884-1 **08 4130 06** 200

16 A, 250 V~
Installation wall thickness 1.3 - 2.2 mm;
Installation depth 32.3 mm

Not suitable for wall boxes.

Connection terminals according to IEC 60884-1

- contacts made of copper alloy
- duroplast base
- thermoplastic centre plate, matt
- for diagonal installation
- for catch fixing
- with screw terminals

on page T10

SCHUKO socket outlet 45° with hinged cover, „SNAP IN“ 1.3-2.2 mm

grey, glossy	**08 4121 97**	200
red, glossy	**08 4121 86**	200
green, glossy	**08 4121 90**	200
orange, glossy	**08 4121 94**	200

16 A, 250 V~
Installation wall thickness 1.3 - 2.2 mm;
Installation depth 32.5 mm

Not suitable for wall boxes.

Connection terminals according to IEC 60884-1

IP44

- with imprint „IP44“
- insert grey, mat
- with sealing
- for diagonal installation
- for catch fixing
- with screw terminals

on page T10

Built-in SCHUKO socket outlet with centre plate Ø 50 mm „SNAP IN“ 2 mm

light grey, matt	**4188 58**	200
polar white, matt	**08 4188 59**	200
black, matt	**08 4188 55**	200

16 A, 250 V~
Installation wall thickness 2 mm;
Installation depth 38.9 mm

Not suitable for wall boxes.

Connection terminals according to IEC 60884-1

- contacts made of copper alloy
- duroplast base
- thermoplastic centre plate, matt
- centre plate with twist protection
- for catch fixing
- with screw terminals

on page T10

Built-in SCHUKO socket outlet with hinged cover 59.5 x 59.5 mm IP44 „SNAP IN“ 2 mm

black, matt **08 4296 46** 170

16 A, 250 V~
Installation wall thickness 2 mm;
Installation depth 33.1 mm

Not suitable for wall boxes.

Earth bracket clamping forces satisfy TNO requirements.

Connection terminals according to IEC 60884-1

- with imprint „IP44“
- with distance sealing ring
- contacts made of copper alloy
- Thermoplastic base
- polycarbonate centre plate, matt
- centre plate with twist protection
- ABS hinged cover, matt, abrasion and scratch-proof
- hinged cover can be opened to 135°
- for catch fixing
- with plug-in terminals

	Order no.	Packing unit

on page T9

Built-in SCHUKO socket outlet with centre plate Ø 50 mm „SNAP IN“ 2.5 mm

light grey, matt	**4175 08**	200
polar white, matt	**4175 09**	200

16 A, 250 V~
Installation wall thickness 2.5 mm;
Installation depth 38.9 mm

Not suitable for wall boxes.

Connection terminals according to IEC 60884-1

- contacts made of copper alloy
- duroplast base
- thermoplastic centre plate, matt
- centre plate with twist protection
- for catch fixing
- with screw terminals

on page T10

Built-in SCHUKO socket outlet with centre plate Ø 50 mm „SNAP IN“ 2.5 mm

light grey, matt	**4788 26**	200
polar white, matt	**4788 29**	200

16 A, 250 V~
Installation wall thickness 2.5 mm;
Installation depth 39.3 mm

Not suitable for wall boxes.

Earth bracket clamping forces satisfy TNO requirements.

- contacts made of copper alloy
- duroplast base
- thermoplastic centre plate, matt
- for catch fixing
- with plug-in terminals

on page T10

Built-in SCHUKO socket outlet with centre plate Ø 50 mm „SNAP IN“ 2.5 mm

polar white, matt	**4788 69**	10

16 A, 250 V~
Installation wall thickness 2.5 mm;
Installation depth 39.3 mm

Not suitable for wall boxes.

Earth bracket clamping forces satisfy TNO requirements.

- contacts made of copper alloy
- Thermoplastic base
- thermoplastic centre plate, matt
- centre plate with twist protection
- for catch fixing
- with plug-in terminals

	Order no.	Packing unit

on page T9

Built-in SCHUKO socket outlet with centre plate Ø 50 mm „SNAP IN“ 3 mm

grey, matt	**4188 06**	200
light grey, matt	**4188 08**	200
white, matt	**4188 02**	200
polar white, matt	**4188 09**	200
black, matt	**4188 05**	200

16 A, 250 V~
Installation wall thickness 3 mm;
Installation depth 38.9 mm

Not suitable for wall boxes.

Connection terminals according to IEC 60884-1

- contacts made of copper alloy
- duroplast base
- thermoplastic centre plate, matt
- centre plate with twist protection
- for catch fixing
- with screw terminals

on page T9

Built-in SCHUKO socket outlet with centre plate 50 x 50 mm „SNAP IN“ 3 mm

polar white, matt	**4190 09**	200
black, matt	**4190 05**	200

16 A, 250 V~
Installation wall thickness 3 mm;
Installation depth 38.9 mm

Not suitable for wall boxes.

Connection terminals according to IEC 60884-1

- contacts made of copper alloy
- duroplast base
- thermoplastic centre plate, matt
- centre plate with twist protection
- for catch fixing
- with screw terminals

on page T10

Built-in SCHUKO socket outlet with centre plate Ø 50 mm „SNAP IN“ 3.5 mm

grey, matt	**4788 36**	200
light grey, matt	**4788 16**	200
polar white, matt	**4788 19**	200

16 A, 250 V~
Installation wall thickness 3.5 mm;
Installation depth 39.3 mm

Not suitable for wall boxes.

Earth bracket clamping forces satisfy TNO requirements.

Connection terminals according to IEC 60884-1

- contacts made of copper alloy
- Thermoplastic base
- thermoplastic centre plate, matt
- centre plate with twist protection
- for catch fixing
- with plug-in terminals

	Order no.	Packing unit

Built-in SCHUKO socket outlet with centre plate Ø 50 mm „SNAP IN“ 4 mm

light grey, matt **4177 08** 200

16 A, 250 V~
Installation wall thickness 4 mm;
Installation depth 38.9 mm

on page T9

Not suitable for wall boxes.

Connection terminals according to IEC 60884-1

- contacts made of copper alloy
- duroplast base
- thermoplastic centre plate, matt
- centre plate with twist protection
- for catch fixing
- with screw terminals

Built-in SCHUKO socket outlet with centre plate 50 x 50 mm

polar white, glossy **4172 09** 10

16 A, 250 V~
Installation wall thickness 4.0 +/- 0.2 mm;
Installation depth 38.8 mm

on page T10

Not suitable for wall boxes.

- contacts made of copper alloy
- duroplast base
- centre plate 50 x 50 mm
- thermoplastic centre plate, glossy
- for catch fixing
- with screw terminals

Built-in SCHUKO socket outlet with hinged cover 59.5 x 59.5 mm IP44 „SNAP IN“ 4 mm

black, matt **4701 05** 170

16 A, 250 V~
Installation wall thickness 4.0 +/- 0,2 mm;
Installation depth 33.1 mm

on page T10

Not suitable for wall boxes.

Earth bracket clamping forces satisfy TNO requirements.

- with imprint „IP44“
- contacts made of copper alloy
- Thermoplastic base
- polycarbonate centre plate, matt
- centre plate with twist protection
- ABS hinged cover, matt, abrasion and scratch-proof
- hinged cover can be opened to 135°
- for catch fixing
- with plug-in terminals

Built-in SCHUKO socket outlets with special fixing

Built-in SCHUKO socket outlet with centre plate Ø 50 mm

white **4180 37** 10

16 A, 250 V~
Installation depth 36.6 mm

on page T10

Not suitable for wall boxes.

- contacts made of copper alloy
- duroplast base
- duroplast centre plate
- centre plate with twist protection
- Screw fastening via base
- with screw terminals

Built-in SCHUKO socket outlet with centre plate 50 x 50 mm and supporting angle

white **4180 31** 10
black **4180 32** 10

16 A, 250 V~
Installation depth 36.6 mm

on page T10

Not suitable for wall boxes.

- contacts made of copper alloy
- duroplast base
- centre plate 50 x 50 mm
- duroplast centre plate
- centre plate with twist protection
- Fastening via supporting angles
- with screw terminals

SCHUKO socket outlet with centre plate 55.5 x 55.5 mm

black, matt **09 4186 05** 10

16 A, 250 V~
Installation depth 32.4 mm

on page T11

Not suitable for wall boxes.

- fastening via expanding dowels
- contacts made of copper alloy
- duroplast base
- thermoplastic centre plate
- with screw terminals

Built-in SCHUKO socket outlet with centre plate Ø 50 mm and supporting ring

polar white, matt **4180 69** 200

16 A, 250 V~
Installation depth 31.3 mm

on page T11

Connection terminals according to IEC 60884-1

- contacts made of copper alloy
- duroplast base
- thermoplastic centre plate
- centre plate with twist protection
- without spreader claws
- with screw terminals

	Order no.	Packing unit

Built-in SCHUKO socket outlet with centre plate Ø 50 mm and supporting ring

polar white, matt — **4880 69** — 200

16 A, 250 V~
Installation depth 31.3 mm

on page T11

Connection terminals according to IEC 60884-1

- contacts made of copper alloy
- duroplast base
- thermoplastic centre plate
- centre plate with twist protection
- without spreader claws
- with plug-in terminals

BUILT-IN SOCKET OUTLETS WITH EARTH PIN

Built-in socket outlets „SNAP IN“ with earth pin

Built-in socket outlet with earth pin and centre plate Ø 50 mm, "SNAP IN" 0.6 - 1.5 mm

black, matt, enhanced contact protection IEC 60884-1 — **67 4194 05** — 200

polar white, matt, enhanced contact protection IEC 60884-1 — **67 4194 09** — 200

on page T11

16 A, 250 V~
Installation wall thickness 0.6 - 1.5 mm;
Installation depth 35.8 mm

Not suitable for wall boxes.

- 2pole + earth
- contacts made of copper alloy
- duroplast base
- thermoplastic centre plate, matt
- centre plate with twist protection
- for catch fixing
- with screw terminals

Built-in socket outlet with earth pin and centre plate 50 x 50 mm, „SNAP IN“ 0.6 - 1.5 mm

brown, matt, enhanced contact protection IEC 60884-1 — **67 4191 01** — 200

white, matt, enhanced contact protection IEC 60884-1 — **67 4191 02** — 200

polar white, matt, similar to RAL 9010, enhanced contact protection IEC 60884-1 — **67 4191 09** — 200

black, matt, enhanced contact protection IEC 60884-1 — **67 4191 05** — 200

on page T11

16 A, 250 V~
Installation wall thickness 0.6 - 1.5 mm;
Installation depth 33.8 mm

Not suitable for wall boxes.

- 2pole + earth
- contacts made of copper alloy
- duroplast base
- thermoplastic centre plate, matt
- centre plate with twist protection
- for catch fixing
- with screw terminals

Built-in socket outlet with earth pin and centre plate Ø 50 mm, "SNAP IN" 2.5 mm

polar white, matt, enhanced contact protection IEC 60884-1 — **67 4128 09** — 200

on page T11

16 A, 250 V~
Installation wall thickness 2.5 mm;
Installation depth 35.8 mm

Not suitable for wall boxes.

- 2pole + earth
- contacts made of copper alloy
- duroplast base
- thermoplastic centre plate, matt
- centre plate with twist protection
- for catch fixing
- with screw terminals

Built-in socket outlet with earth pin and centre plate 50 x 50 mm, „SNAP IN“ 3 mm

brown, matt, enhanced contact protection IEC 60884-1 — **67 4192 01** — 200

white, matt, enhanced contact protection IEC 60884-1 — **67 4192 02** — 200

polar white, matt, enhanced contact protection IEC 60884-1 — **67 4192 09** — 200

black, matt, enhanced contact protection IEC 60884-1 — **67 4192 05** — 200

on page T11

16 A, 250 V~
Installation wall thickness 3 mm;
Installation depth 33.8 mm

Not suitable for wall boxes.

- 2pole + earth
- contacts made of copper alloy
- duroplast base
- thermoplastic centre plate, matt
- centre plate with twist protection
- for catch fixing
- with screw terminals

Built-in socket outlets with earth pin and special fixing

Built-in socket outlet with earth pin and supporting ring, centre plate Ø 50 mm

polar white, glossy, enhanced contact protection IEC 60884-1 — **67 6379 10** — 200

on page T11

16 A, 250 V~
Installation depth 31.3 mm

- 2pole + earth
- contacts made of copper alloy
- duroplast base
- duroplast centre plate, glossy
- centre plate with twist protection
- without spreader claws
- with screw-in lift terminals

	Order no.	Packing unit		Order no.	Packing unit

BUILT-IN SOCKET OUTLETS WITHOUT EARTH CONTACT

Socket outlets without earth contact ”SNAP IN“

on page T11

Built-in socket outlet without earth contact with centre plate 50 x 50 mm, "SNAP IN" 3 mm

brown, matt, enhanced contact protection IEC 60884-1	**61 4193 01**	200
grey, matt, enhanced contact protection IEC 60884-1	**61 4193 08**	200
polar white, matt, enhanced contact protection IEC 60884-1	**61 4193 09**	200
black, matt, enhanced contact protection IEC 60884-1	**61 4193 05**	200

16 A, 250 V~
Installation wall thickness 3 mm;
Installation depth 33.8 mm

Not suitable for wall boxes.

- 2pole + earth
- contacts made of copper alloy
- duroplast base
- thermoplastic centre plate, matt
- centre plate with twist protection
- for catch fixing
- with screw terminals

Overview appliance switches	82-83
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APPLIANCE SWITCHES

Industrial switch series
Built-in system

Today our appliance switches are found in the interiors of passenger cars, trucks, busses, trains, or in electrical appliances - actually wherever reliable, safe, switching functions are required with pleasing haptics.

- Compact dimensions
- High-level switching reliability
- Proven millions of times over in vehicle construction and appliance manufacturing
- Custom solutions available on customer request

CIRCUIT		TECHNICAL DATA									CONNECTION				IMPRINT				ORDER DATA		
	Illuminated	0.7 A	0.35 A	5 A	6 A	10 A	16 A	9 – 14 V DC	250 V AC	Contact opening ≥ 3.0 mm	Fast-on terminal 4.8 mm	Fast-on terminal 6.3 mm	Solder contacts	Leadframe vertical	Imprint "0" and "I"	Imprint II, "0", "I"	Lens and imprint "0"	Individual imprint	Series	Order no.	Page
ROCKER SWITCHES																					
1-pole on/off					■				■		■								RS 1	8834 62	T12
					■				■			■			■				RW 2	8760 32	T13
							■		■		■								RS 1	8835 66	T12
							■		■			■							RW 2	8770 02	T13
							■		■			■			■				RW 2	8770 37	T13
							■		■			■			■				RS 1	8835 69	T12
							■		■			■			■				WF 2	8691 00	T13
							■		■			■							WF 2	8691 09	T13
							■		■			■			■				WKR 2	8801 54	T14
							■		■				■						RS 1	8835 56	T12
							■		■				■						RSK 1	8685 08	T12
				■				■			■								RH 1	8745 32	T12
	■				■				■			■			■				RW 2	8760 09	T13
	■				■				■			■					■		RW 2	8760 54	T13
	■				■				■			■							RS 1	8839 05	T12
	■				■			■				■			■				RW 2	8760 18	T13
	■						■		■			■							RS 1	8836 13	T12
	■						■		■			■							WKR 1	8800 03	T14
	■						■	■				■			■				RW 2	8770 18	T13
1-pole change-over					■				■				■						RS 1	8838 60	T12
							■		■			■							RW 2	8772 00	T13
							■		■			■							WF 2	8691 61	T13
							■		■			■							WKR 1	8800 60	T14
							■		■				■						RSK 1	8685 63	T13
							■		■		■				■				WF 2	8692 66	T14
							■		■			■						■	WKR 3	8802 05	T14
2 x 1-pole Off							■		■			■						■	WKR 2	8801 03	T14
	■						■		■			■						■	WKR 2	8801 08	T14
3 x 1-pole Off							■		■			■						■	WKR 3	8802 15	T14
2-pole on/off					■				■			■			■				RW 2	8761 01	T13
							■		■			■			■				RW 2	8771 08	T13
							■		■			■			■				WF 2	8692 01	T13
							■		■			■			■				WKR 2	8801 71	T14
	■				■				■			■			■				RW 2	8761 00	T13
	■						■		■			■			■				RW 2	8771 00	T13
	■						■		■			■					■		RW 2	8771 65	T13

CIRCUIT		TECHNICAL DATA									CONNECTION				IMPRINT				ORDER DATA		
	Illuminated	0.7 A	0.35 A	5 A	6 A	10 A	16 A	9 – 14 V DC	250 V AC	Contact opening ≥ 3.0 mm	Fast-on terminal 4.8 mm	Fast-on terminal 6.3 mm	Solder contacts	Leadframe vertical	Imprint "0" and "I"	Imprint II, "0", "I"	Lens and imprint "0"	Individual imprint	Series	Order no.	Page
ROCKER SWITCHES (continued)																					
2-pole change-over	■						■		■			■			■				RW 2	8771 07	T13
							■		■			■							WKR 2	8801 84	T15
					■				■			■							RW 2	8762 50	T13
							■		■			■							RW 2	8772 50	T13
							■		■			■			■				RW 2	8772 55	T13
							■		■			■							WF 2	8692 62	T13
	■				■				■			■			■				RW 2	8762 56	T13
	■				■				■			■							RW 2	8762 57	T13
							■		■			■						■	WKR 3	8803 80	T14
							■		■			■						■	WKR 4	8805 50	T15
1-pole Groups 1-0-2					■				■			■						■	RS 1	8838 42	T12
						■			■				■						RSK 1	8685 46	T12
				■				■			■								RH 1	8745 46	T12
2-pole Groups 1-0-2							■		■			■				■			WF 2	8692 40	T13
							■		■			■							WF 2	8692 47	T13
ROCKER BUTTONS																					
2 changeover contacts, separated							■		■			■							WKR 2	8801 30	T14
Input terminals					■				■			■							RW 2	8764 80	T13
PUSH-BUTTON SWITCHES																					
1-pole on/off			■					■						■					DTS	8748 10	T16
1-pole change-over		■						■					■						DKW	8851 22	T15
			■					■						■					DTS	8748 30	T16
ROTARY SWITCHES																					
1-pole on/off	■				■				■		■	■							RD 2	8860 00	T16
2-pole on/off						■			■		■	■			■				RD 2	8865 51	T16
	■					■			■		■	■			■				RD 2	8865 50	T16
1-pole change-over					■				■		■	■							RD 2	8861 01	T16
2-pole change-over						■			■		■	■							RD 2	8866 51	T16
						■			■		■	■			■				RD 2	8866 52	T16

NOTE
The AC switching capacities specified below for appliance switches in the form of 16 (5) A, for example, document a breaking current of 16 A and rated current of 5 A. DC switching capacities are shown without parentheses and refer to ohmic loads.

	Order no.	Packing unit

SWITCHES

RH 1

on page T12

Rocker switch

	Order no.	Packing unit
grey-blue, mat, on/off	**8745 32**	200
grey-blue, mat, Group 1-0-2	**8745 46**	500

5 A, 9 - 14 V=
Panel hole dimensions (L x W x D) 24 x 11 x 9.8 mm

Additional versions and labelling options available on request.

- with fast-on terminals 4.8 x 0.8 mm

RS 1

on page T12

Rocker switch

	Order no.	Packing unit
black, matt, Off, 6 (3) A, flat connector 4.8 x 0.8 mm	**8834 62**	200
black, matt, Off, 16 (5) A, flat connector 4.8 x 0.8 mm	**8835 66**	200
black, matt, Group 1-0-2, 6 (3) A, flat connector 6.3 x 0.8 mm	**8838 42**	200
white, matt, Change-over, 6 (3) A, solder contacts	**8838 60**	200
white, matt, Off, 16 (5) A, solder contacts	**8835 56**	200

250 V~
Panel hole dimensions (L x W x D)
21 x 11.2 x 18 mm;
Ambient temperature max. 125 °C;
Min. switching cycles 10000;
Creep resistance 250 V PTI

Note: The installation aperture must consist of insulating material.

Additional versions and labelling options available on request.

Approval according to DIN EN 61058-1
Classification according to VDE 630-1

- for devices with safety class II
- for insertion in wall thickness 2.0 and 3.5 mm
- for insertion in wall thickness 2.0

on page T12

Rocker switch with imprint „0“ and „1“

	Order no.	Packing unit
white, matt, on/off	**8835 69**	200

16 (5) A, 250 V~
Panel hole dimensions (L x W x D)
21 x 11.2 x 18 mm;
Ambient temperature max. 125 °C;
Min. switching cycles 10000;
Creep resistance 250 V PTI

Note: The installation aperture must consist of insulating material.

More versions available on request.

Approval according to DIN EN 61058-1
Classification according to VDE 630-1

- with fast-on terminals 6.3 x 0.8 mm
- for devices with safety class II
- for insertion in wall thickness 2.0 and 3.5 mm
- for insertion in wall thickness 2.0

on page T12

Rocker switch illuminated

	Order no.	Packing unit
yellow transparent, Off, 16 (5) A	**8836 13**	200
yellow transparent, Off, 6 (3) A	**8839 05**	500

250 V~
Panel hole dimensions (L x W x D)
21 x 11.2 x 18 mm;
Ambient temperature max. 125 °C;
Min. switching cycles 10000;
Creep resistance 250 V PTI

Note: The installation aperture must consist of insulating material.

Approval according to DIN EN 61058-1
Classification according to VDE 630-1

- with fast-on terminals 6.3 x 0.8 mm
- for devices with safety class II
- for insertion in wall thickness 2.0 and 3.5 mm
- for insertion in wall thickness 2.0

RSK 1

on page T12

Rocker switch

	Order no.	Packing unit
black, matt, Off, 16 (5) A	**8685 08**	200
natural, matt, Group 1-0-2, 10 (4) A	**8685 46**	200
white, matt, Change-over, 16 (5) A	**8685 63**	500

250 V~
Panel hole dimensions (L x W x D)
21 x 11.2 x 12 mm;
Ambient temperature max. 85 °C;
Min. switching cycles 10000

Note: The installation aperture must consist of insulating material.

Additional versions and labelling options available on request.

Approval according to DIN EN 61058-1
Classification according to VDE 630-1

- with solder contacts, suitable for printed circuits
- for devices with safety class II
- for insertion in wall thickness 2.0 mm

	Order no.	Packing unit

RW 2

on page T13

Rocker switch

	Order no.	Packing unit
black, matt, 2pole change-over, 6 (3) A	**8762 50**	200
black, matt, Off, 16 (5) A	**8770 02**	200
black, matt, Change-over, 16 (5) A	**8772 00**	200
black, matt, 2pole change-over, 16 (5) A	**8772 50**	200

250 V~
Panel hole dimensions (L x W x D)
26.5 x 25.6 x 18 mm;
Ambient temperature max. 125 °C;
Min. switching cycles 10000

More versions available on request.

Approval according to DIN EN 61058-1
Classification according to VDE 630-1

- with fast-on terminals 6.3 x 0.8 mm
- for devices with safety class II
- for wall thickness 0.6 - 2.0 mm

on page T13

Rocker switch with imprint „0“ and „1“

	Order no.	Packing unit
red transparent, Off, 6 (3) A	**8760 32**	200
white, matt, 2pole Off, 6 (3) A	**8761 01**	200
black, matt, Off, 16 (5) A	**8770 37**	200
black, matt, 2pole Off, 16 (5) A	**8771 08**	200
black, matt, 2pole change-over, 16 (5) A	**8772 55**	200

250 V~
Panel hole dimensions (L x W x D)
26.5 x 25.6 x 18 mm;
Ambient temperature max. 125 °C;
Min. switching cycles 10000

Approval according to DIN EN 61058-1
Classification according to VDE 630-1

- with fast-on terminals 6.3 x 0.8 mm
- for devices with safety class II
- for wall thickness 0.6 - 2.0 mm

on page T13

Rocker switch illuminated

	Order no.	Packing unit
yellow transparent, 2pole change-over, 6 (3) A	**8762 57**	200
red transparent, 2pole Off, 16 (5) A	**8771 00**	200

250 V~
Panel hole dimensions (L x W x D) 26.5 x 25.6 x 18;
Ambient temperature max. 125 °C;
Min. switching cycles 10000

Approval according to DIN EN 61058-1
Classification according to VDE 630-1

- with fast-on terminals 6.3 x 0.8 mm
- for devices with safety class II
- for wall thickness 0.6 - 2.0 mm

on page T13

Rocker switch illuminated with imprint „0“ and „1“

	Order no.	Packing unit
red transparent, Off, 6 (3) A, 250 V~	**8760 09**	200
red transparent, Off, 6 (3) A, 9 - 14 V=	**8760 18**	200
red transparent, 2pole Off, 6 (3) A, 250 V~	**8761 00**	200
red transparent, 2ple change-over, 6 (3) A, 250 V~	**8762 56**	200
red transparent, Off, 16 (5) A, 9 - 14 V=	**8770 18**	200
green transparent, 2pole Off, 16 (5) A, 250 V~	**8771 07**	200

Panel hole dimensions (L x W x D)
26.5 x 25.6 x 18 mm;
Ambient temperature max. 125 °C;
Min. switching cycles 10000

More versions available on request.

Approval according to DIN EN 61058-1
Classification according to VDE 630-1

- with fast-on terminals 6.3 x 0.8 mm
- for devices with safety class II
- for wall thickness 0.6 - 2.0 mm

on page T13

Rocker switch illuminated with lens and imprint „0“

	Order no.	Packing unit
black, matt, Off, 6 (3) A	**8760 54**	200
polar white, matt, 2pole Off, 16 (5) A	**8771 65**	200

250 V~
Panel hole dimensions (L x W x D)
26.5 x 25.6 x 18 mm;
Ambient temperature max. 125 °C;
Min. switching cycles 10000

Approval according to DIN EN 61058-1
Classification according to VDE 630-1

- with fast-on terminals 6.3 x 0.8 mm
- for devices with safety class II
- for wall thickness 0.6 - 2.0 mm

WF 2

on page T13

Rocker switch

	Order no.	Packing unit
white, matt, Change-over, 16 (5) A	**8691 61**	200
black, matt, 2pole group 1-0-2, 16 (5) A	**8692 47**	200
black, matt, 2pole change-over, 16 (5) A	**8692 62**	200
anthracite, matt, Off, 16 (5) A, installation depth 30 mm	**8691 09**	200

250 V~
Panel hole dimensions (L x W x D)
34.6 x 12.5 x 48 mm;
Ambient temperature max. 125 °C;
Min. switching cycles 10000

More versions available on request.

Approval according to DIN EN 61058-1
Classification according to VDE 630-1

- with fast-on terminals 6.3 x 0.8 mm
- for wall thickness 0.6 - 2.4 mm

on page T13

Rocker switch with imprint „0“ and „1“

	Order no.	Packing unit
black, matt, Off, flat connector 6.3 x 0.8 mm	**8691 00**	190
black, matt, 2pole Off, flat connector 6.3 x 0.8 mm	**8692 01**	200
black, matt, Change-over, flat connector 4.8 x 0.8 mm	**8692 66**	200

16 (5) A, 250 V~
Panel hole dimensions (L x W x D)
34.6 x 12.5 x 44 mm;
Ambient temperature max. 125 °C;
Min. switching cycles 10000

Approval according to DIN EN 61058-1
Classification according to VDE 630-1

- for wall thickness 0.6 - 2.4 mm

on page T13

Rocker switch with imprint „1-0-2“

	Order no.	Packing unit
black, glossy, 2pole group 1-0-2	**8692 40**	200

16 (5) A, 250 V~
Panel hole dimensions (L x W x D)
34.6 x 12.5 x 48 mm;
Ambient temperature max. 125 °C;
Min. switching cycles 10000

Approval according to DIN EN 61058-1
Classification according to VDE 630-1

- with fast-on terminals 6.3 x 0.8 mm
- for wall thickness 0.6 - 2.4 mm

WKR 1

on page T13

Rocker switch

	Order no.	Packing unit
white, matt, Change-over	**8800 60**	200

16 (5) A, 250 V~
Panel hole dimensions (L x W x D)
28.6 x 19.5 x 20.5 mm;
Ambient temperature max. 125 °C;
Min. switching cycles 10000;
Creep resistance 250 V PTI

More versions available on request.

Approval according to DIN EN 61058-1
Classification according to VDE 630-1

- with fast-on terminals 6.3 x 0.8 mm
- for wall thickness 0.6 - 2.0 mm

on page T13

Rocker switch illuminated

	Order no.	Packing unit
black, matt, on/off	**8800 03**	250

16 (5) A, 250 V~
Panel hole dimensions (L x W x D)
28.6 x 19.5 x 20.5 mm;
Ambient temperature max. 125 °C;
Min. switching cycles 10000;
Creep resistance 250 V PTI

Approval according to DIN EN 61058-1
Classification according to VDE 630-1

- with fast-on terminals 6.3 x 0.8 mm
- for wall thickness 0.6 - 2.0 mm

WKR 2

on page T13

Rocker switch

	Order no.	Packing unit
white, matt, 2 x Off	**8801 03**	150
white, matt, 2pole Off	**8801 84**	150

16 (5) A, 250 V~
Panel hole dimensions (L x W x D)
32.8 x 28.6 x 20.5 mm;
Ambient temperature max. 125 °C;
Min. switching cycles 10000;
Creep resistance 250 V PTI

Additional labelling options available on request.

Approval according to DIN EN 61058-1
Classification according to VDE 630-1

- with fast-on terminals 6.3 x 0.8 mm
- for wall thickness 0.6 - 2.0 mm

on page T13

Rocker switch with imprint „0“ and „1“

	Order no.	Packing unit
white, matt, on/off	**8801 54**	150
black, matt, 2pole Off	**8801 71**	100

16 (5) A, 250 V~
Panel hole dimensions (L x W x D)
32.8 x 28.6 x 20.5 mm;
Ambient temperature max. 125 °C;
Min. switching cycles 10000;
Creep resistance 250 V PTI

Approval according to DIN EN 61058-1
Classification according to VDE 630-1

- with fast-on terminals 6.3 x 0.8 mm
- for wall thickness 0.6 - 2.0 mm

	Order no.	Packing unit

on page T14

Rockers switch illuminated

white, matt, 2 x Off **8801 08** 150

16 (5) A, 250 V~
Panel hole dimensions (L x W x D)
32.8 x 28.6 x 20.5 mm;
Ambient temperature max. 125 °C;
Min. switching cycles 10000;
Creep resistance 250 V PTI

Additional labelling options available on request.

Approval according to DIN EN 61058-1
Classification according to VDE 630-1

- for wall thickness 0.6 - 2.0 mm
- with fast-on terminals 6.3 x 0.8 mm

WKR 3

on page T14

Rockers switch

white, matt, Change-over **8802 05** 100

black, matt, 3 x Off **8802 15** 100

white, matt, 2pole change-over **8803 80** 100

16 (5) A, 250 V~
Panel hole dimensions (L x W x D)
46.8 x 28.6 x 20.5 mm;
Ambient temperature max. 125 °C;
Min. switching cycles 10000;
Creep resistance 250 V PTI

Additional labelling options available on request.

Approval according to DIN EN 61058-1
Classification according to VDE 630-1

- for wall thickness 0.6 - 2.0 mm
- with fast-on terminals 6.3 x 0.8 mm

WKR 4

on page T15

Rocker switch

black, matt, 2pole change-over **8805 50** 100

16 (5) A, 250 V~
Panel hole dimensions (L x W x D)
60.8 x 28.6 x 20.5 mm;
Ambient temperature max. 125 °C;
Min. switching cycles 10000;
Creep resistance 250 V PTI

Additional versions and labelling options available on request.

Approval according to DIN EN 61058-1
Classification according to VDE 630-1

- with fast-on terminals 6.3 x 0.8 mm
- for wall thickness 0.6 - 2.0 mm

PUSH-BUTTONS

RW 2

on page T13

Rocker push-button

black, matt, 2 change-over contacts, isolated input terminals **8764 80** 200

Approval according to DIN EN 61058-1
Classification according to VDE 630-1

- for wall thickness 0.6 - 2.0 mm
- with fast-on terminals 6.3 x 0.8 mm
- for devices with safety class II

WKR 2

on page T14

Rockers push-button

black, matt, 2 change-over contacts, isolated input terminals **8801 30** 100

250 V~, 16 (5) A
Panel hole dimensions (L x W x D)
33 x 35.5 x 23 mm;
Ambient temperature max. 125 °C;
Min. switching cycles 10000

Approval according to DIN EN 61058-1
Classification according to VDE 630-1

- with fast-on terminals 6.3 x 0.8 mm

PUSH-BUTTON SWITCHES

DKW

on page T15

Push-button switch

black, matt, Change-over **8851 22** 400

0.7 A, 9 - 14 V=
Panel hole dimensions (L x W x D)
28.2 x 12.4 x 19.1 mm

More versions available on request.

DTS 1

on page T16

Push-button switch

beige, matt, on/off **8748 10** 500

change-over, without rocker **8748 30** 600

0.35 A=, 9 - 14 V=
Panel hole dimensions (L x W x D)
12.3 x 12.3 x 15 mm

More versions available on request.

- with pressed screens, vertical

	Order no.	Packing unit

ROTARY SWITCHES

RD 2

on page T16

Rotary switch

	Order no.	Packing unit
black, matt, Change-over, 6 (3) A	**8861 01**	200
black, matt, 2pole change-over, 10 (4) A	**8866 51**	200

Panel hole dimensions (L x W x D)
26.5 x 25.6 x 18 mm;
Ambient temperature max. 125 °C;
Min. switching cycles 10000;
Creep resistance 250 V PTI

Approval according to DIN EN 61058-1
Classification according to VDE 630-1

- with fast-on terminals 6.3 x 0.8 mm
- for wall thickness 0.6 - 2.0 mm
- for devices with safety class II

on page T16

Rotary switch with imprint „0“ and „1“

	Order no.	Packing unit
black, matt, 2pole Off	**8865 51**	200
black, matt, 2pole change-over	**8866 52**	200

Panel hole dimensions (L x W x D)
26.5 x 25.6 x 18 mm;
Ambient temperature max. 125 °C;
Min. switching cycles 10000;
Creep resistance 250 V PTI

Approval according to DIN EN 61058-1
Classification according to VDE 630-1

- with fast-on terminals 6.3 x 0.8 mm
- for wall thickness 0.6 - 2.0 mm
- for devices with safety class II

on page T16

Rotary switch illuminated

	Order no.	Packing unit
red transparent, on/off	**8860 00**	200

Panel hole dimensions (L x W x D)
26.5 x 25.6 x 18 mm;
Ambient temperature max. 125 °C;
Min. switching cycles 10000;
Creep resistance 250 V PTI

Approval according to DIN EN 61058-1
Classification according to VDE 630-1

- with fast-on terminals 6.3 x 0.8 mm
- for wall thickness 0.6 - 2.0 mm
- for devices with safety class II

on page T16

Rotary switch illuminated with imprint „0“ and „1“

	Order no.	Packing unit
red transparent, 2pole Off	**8865 50**	200

Panel hole dimensions (L x W x D)
26.5 x 25.6 x 18 mm;
Ambient temperature max. 125 °C;
Min. switching cycles 10000;
Creep resistance 250 V PTI

More versions available on request.

Approval according to DIN EN 61058-1
Classification according to VDE 630-1

- with fast-on terminals 6.3 x 0.8 mm
- for wall thickness 0.6 - 2.0 mm
- for devices with safety class II

	Order no.	Packing unit		Order no.	Packing unit

BERKER MANUFACTURE

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 custom-manufactured 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 the 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.

COLOURING

Berker Integro Flow, colour champagne

Berker Integro Flow, colour cream white

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.

If you have questions about Berker Manufacture or already have a project in mind, please contact our industrial sales organization for assistance.

SPECIAL LABELLING – LETTERING AND SYMBOLS

Berker Integro Control System, buttons with symbols

SPECIAL PROCESSING

Berker TS with socket outlets

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 Berker Manufacture or already have a project in mind, please contact your local sales office for assistance. We will be happy to assist you.

Clean by wiping off the surfaces with a moist, soft, lint-free cloth.

Soap-based detergents are suitable for heavier dirt. Glass surfaces can be cleaned by using common glass cleaners.

Abrasives and polishes, acid-based (scale removing) detergents and detergents containing chlorine will generally damage all surfaces. Moreover, painted/lacquered surfaces must not come in contact with detergents that contain alcohol.

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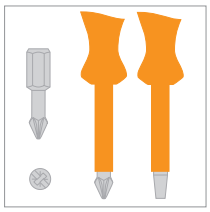
Installation instructions

Tool size for processing BERKER products



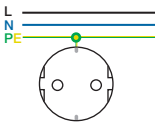
The products have combination screws that can be processed with cross-head as well as flat-blade screwdrivers.

Tool sizes for contact screws:
- Cross-head bits: Pozi-Drive, size 2
- Cross-head screwdrivers: Pozi-Drive, size 2
- flat-blade screwdrivers: blade thickness 1 mm

Tool sizes for fixing screws:
- Cross-head bits: Pozi-Drive, size 1
- Cross-head screwdrivers: Pozidriv size 1.
- Flat-blade screwdrivers: Blade thickness 0.8 mm.

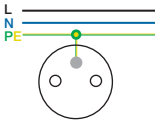
When using cordless screwdrivers a maximum torque of 0.5 Nm should be used.

Socket outlets international



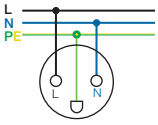
Use in:
AF/AM/AT/AZ/BA/BE/BF/BG/BI/BJ/BY/CF/CS/CZ/DE/EE/EG/ER/ES/FI/GE/GL/GR/HR/HU/ID/IR/IS/IT/KR/KZ/LB/LT/LU/LV/MD/MK/MR/MZ/NL/NO/PE/PT/PY/RO/RU/RW/SA/SE/SI/SM/SO/SR/SY/TJ/TR/UA/UY/UZ

Fig. 1: SCHUKO socket outlet* - 2-pin + earth, 250 V ~, 16 A



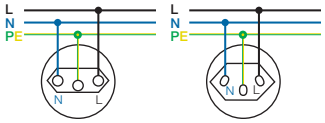
Use in:
AD/BE/CG/CI/CM/DJ/DZ/FR/GF/GN/GP/KH/KM/MA/MG/ML/PL/SK/SN/SY/TD/TG/TN/VN

Fig. 2: Socket outlet with earth pin* – 2-pin + earth, 250 V ~, 16 A



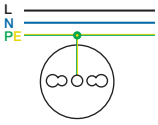
Use in:
DK/GL

Fig. 3: Socket outlet with earth contact "Denmark“ – 2-pin + earth, 250 V ~, 13 A



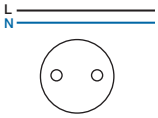
Use in:
CH, type 13 (left)
CH, type 23 (right)

Fig. 4: Socket outlet with earth contact "Switzerland" – 2-pin + earth, type 13: 250 V ~, 10 A; type 23: 250 V ~, 16 A



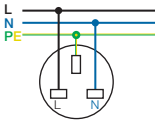
Use in:
AL/CL/ET/IT/LY/SY

Fig. 5: Socket outlet "Italy“* - 2-pin + earth, 250 V ~, 16 A



Use in:
AO/NL

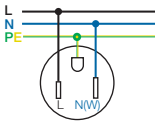
Fig. 6: Socket with earth contact* – 2-pin + earth, 250 V ~, 16 A



Use in:
AE/AG/BN/BW/CY/GB/GD/GH/GM/HK/IE/IQ/KE/KW/LR/MT/MW/MY/OM/SL/TZ/YE/ZA/ZW

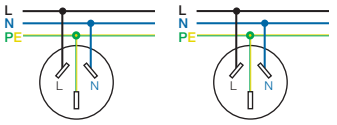
Fig. 7: Socket outlet with earth contact "British Standard", standard: BS 1363 Part 2 – 2-pin + earth, 250 V ~, 13 A

* Non-polarised system - without specification for the connection of the external wire and neutral wire)



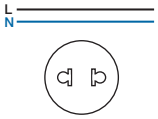
Use in:
CA/GT/GY/HN/HT/KP/LA/MX/PA/PH/PR/SV/TH/TW/US/VE

Fig. 8: Socket outlet with earth contact "USA/CANADA" NEMA 5 - 15 R - 2-pin + earth, 125 V ~, 15 A



Use in:
AR/AU/FJ/NZ

Fig. 9: Socket outlet with earth contact "Australia" - 2-pin + earth, 250 V ~, 10 A (left Fig.); 250 V ~, 15 A (right Fig.)



Use in:
CA/GT/GY/HN/HT/KP/LA/MX/PA/PH/PR/SV/TH/TW/US/VE

Fig. 10: Socket outlet without earth contact "Euro-American Standard“* – 2-pin, 250 V ~, 10 A

Country abbreviations in accordance with ISO 3166

AD=Andorra; AE=United Arab Emirates; AF=Afghanistan; AG=Antigua; AL=Albania; AM=Armenia; AO=Angola; AR=Argentina; AT=Austria; AU=Australia; AZ=Azerbaijan; BA=Bosnia and Herzegovina; BE=Belgium; BF=Burkina Faso; BG=Bulgaria; BI=Burundi; BJ=Benin; BN=Brunei; BW=Botswana; BY=Belarus; CA=Canada; CF=Central Africa Republic; CG=Congo; CH=Switzerland; CI=Côte d'Ivoire; CL=Chile; CM=Cameroon; CS=Serbia and Montenegro; CY=Cypress; CZ=Czech Republic; DE=Germany; DJ=Djibouti; DK=Denmark; DZ=Algeria; EE=Estonia; EG=Egypt; ER=Eritrea; ES=Spain; ET=Ethiopia; FI=Finland; FJ=Fiji; FR=France; GB=United Kingdom; GD=Grenada; GE=Georgia; GF=French Guiana; GH=Ghana; GL=Greenland; GM=Gambia; GN=Guinea; GP=Guadeloupe; GR=Greece; GT=Guatemala; GY=Guyana; HK=Hong Kong; HN=Honduras; HR=Croatia; HT=Haiti; HU=Hungary; ID=Indonesia; IE=Ireland; IQ=Iraq; IR=Iran; IS=Iceland; IT=Italy; KE=Kenya; KH=Cambodia; KM=Comoros; KP=North Korea; KR=South Korea; KW=Kuwait; KZ=Kazakhstan; LA=Laos; LB=Lebanon; LR=Liberia; LT=Lithuania; LU=Luxembourg; LV=Latvia; LY=Libya; MA=Morocco; MD=Moldova; MG=Madagascar; MK=Macedonia; ML=Mali; MR=Mauretanien; MT=Malta; MW=Malawi; MX=Mexiko; MY=Malaysia; MZ=Mosambik; NL=Niederlande; NO=Norwegen; NZ=Neuseeland; OM=Oman; PA=Panama; PE=Peru; PH=Philippinen; PL=Polen; PR=Puerto Rico; PT=Portugal; PY=Paraguay; RO=Rumänien; RU=Russland; RW=Ruanda; SA=Saudi Arabien; SE=Schweden; SI=Slowenien; SK=Slowakei; SL=Sierra Leone; SM=San Marino; SN=Senegal; SO=Somalia; SR=Surinam; SV=Salvador; SY=Syrien; TD=Tschad; TG=Togo; TH=Thailand; TJ=Tadschikistan; TM=Turkmenistan; TN=Tunesien; TR=Türkei; TW=Taiwan; TZ=Tansania; UA=Ukraine; US=USA; UY=Uruguay; UZ=Usbekistan; VE=Venezuela; VN=Vietnam; YE=Jemen; ZA=Sambia; ZW=Zimbabwe

1 Berker Integro

1.1 Module Inserts

Flat-head screws, size M3 or M3.5 must be used to fasten the inserts.

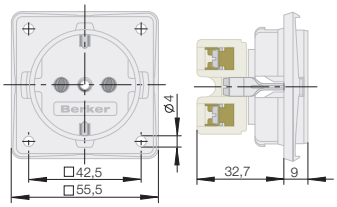
1.1.1 Socket outlets

Socket outlets of international plug-and-socket systems have insertion depths that are different from those of SCHUKO socket outlets (Table 1).

Socket outlet system	Insertion depth
SCHUKO socket outlet	32.7 mm
Socket outlet without earth contact	29.6 mm
Socket outlet with earth pin	29.5 mm
Socket outlet with earth contact "USA/Canada" NEMA 5-15 R	37.5 mm
Socket outlet with earth contact, "Australia"	16.0 mm
Socket outlet with earth contact, "Denmark"	27.5 mm
Socket outlet with earth contact, "Italy"	34.0 mm
Socket outlet with earth contact, "Switzerland", type 13	28.0 mm
Socket outlet with earth contact, „Switzerland“, type 23	28.0 mm
Socket outlet with earth contact, "British Standard"	20.5 mm
Socket outlet without earth contact "Euro-American standard"	21.3 mm

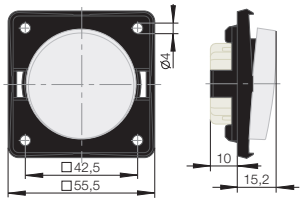
Table 1: Insertion depth of different plug and socket systems

Dimensional drawing



1.1.2 Rocker switch/rocker pushbutton

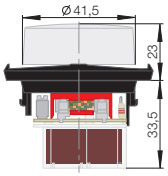
Dimensional drawing



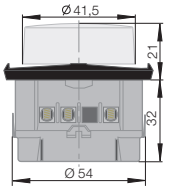
1.1.3 Rotary dimmer with setting knob

Dimensional drawing

200W,
order no. 09 2870 ..



400W,
order no. 09 2871 ...



1.2 Audio/video modules

1.2.1 Cinch modules

Cinch (RCA) is the designation of standardised connectors for transmitting electrical signals, primarily via coaxial cables. Use of other cable types is not widespread, however it is possible.

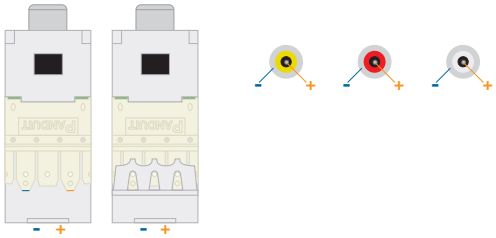


Fig. 1: Pin assignments for cinch modules

1.2.2 VGA modules

The VGA module is used to connect display devices on a graphic card. Depending on the quality, VGA cables can be susceptible to interference at lengths of under 5m, or they can still transmit a good signal at lengths in excess of 30 m. Cables suited for high frequency with a coaxial structure for the colour channels are advantageous.

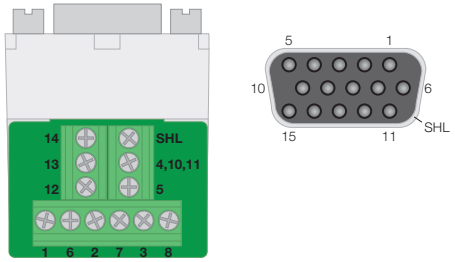


Fig. 2: Pinout of the VGA modules

PIN	Transmission signal	wire
1	red	Coaxial wire
2	green	Coaxial wire
3	blue	Coaxial wire
4*	Monitor ID bit 2	Twisted pair wire (optional connection)
5	Ground	Twisted pair wire
6	red ground	Coaxial shielding
7	green ground	Coaxial shielding
8	blue ground	Coaxial shielding
9	–	–
10*	Synchronous ground	Twisted pair wire
11*	Monitor ID bit 0 or digital ground	Twisted pair wire (optional connection)
12	Monitor ID bit 1	Twisted pair wire (optional connection)
13	Horizontal synchronisation	Wire 1
14	Vertical synchronisation	wire 2
15	Monitor ID bit 3	–
SHL	Housing shielding	External shielding

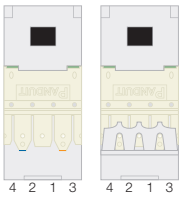
*Are connected together on one terminal.

Table 2: Contact pinouts of the VGA modules

1.2.3 S-Video module

The S-Video (also known as Separate Video, Y/C) module is used for separate transmission of brightness (luminance) and colour (chrominance or chroma) information.

Cable lengths should not exceed 10 m.



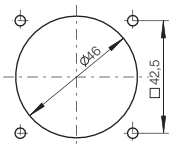
1 Ground luminance (Y)
2 Ground chroma (C)
3 Intensity (luminance) Y
4 Colour (chroma) C

Fig. 3: Contact pinouts of the S-Video module

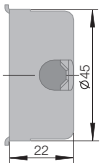
1.3 Contact-protection boxes

Dimensional drawings

Installation cutout Ø 46 mm



09 1820 01
09 1820 03



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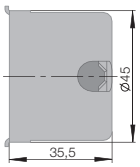
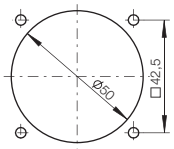
09 1820 02



Installation cutout Ø 50 mm



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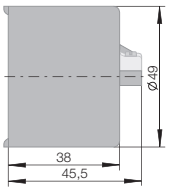

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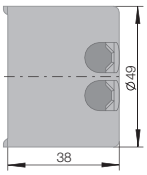

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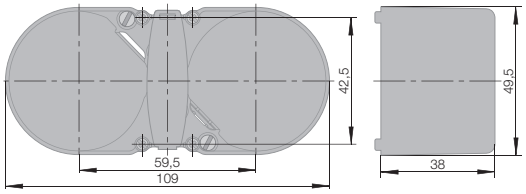
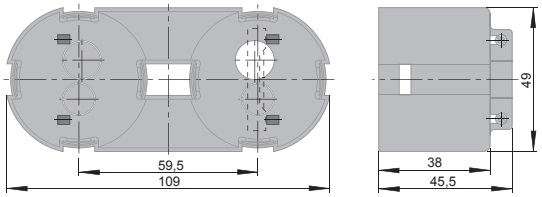


09 1911 ...
09 1912 ...



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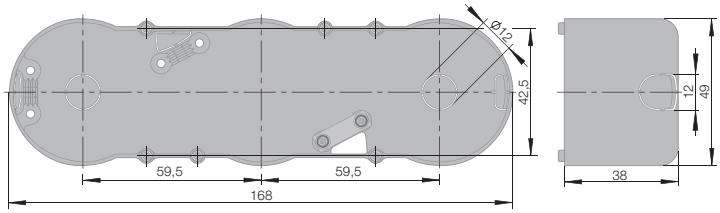
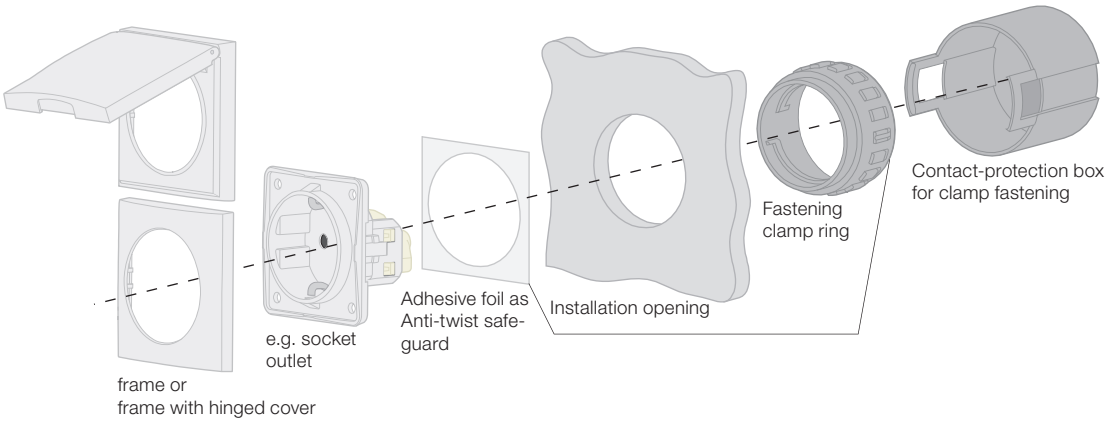


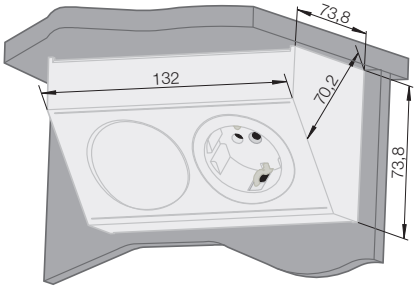
1.4 Mounting with clamp fastening

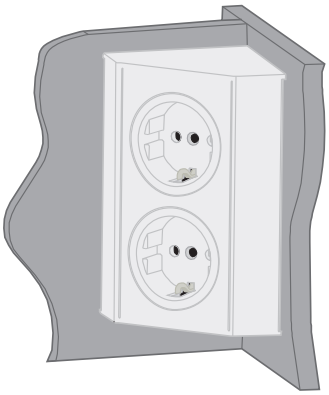
e.g. in a mirror



1.5 TWIN-BOX

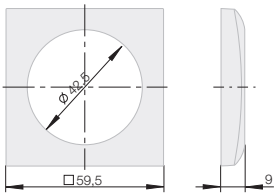
Dimensional drawings

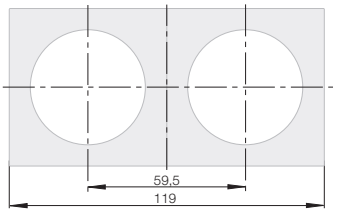


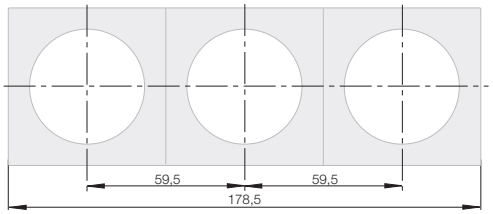


1.6 Berker Integro Flow

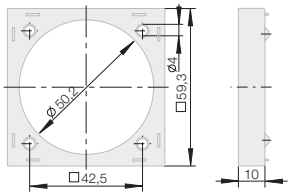
Dimensional drawings



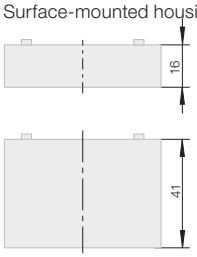




Surface-mounted spacer ring

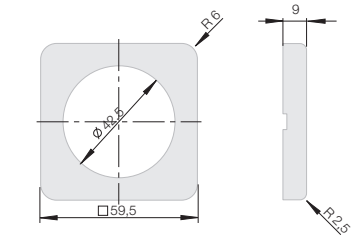


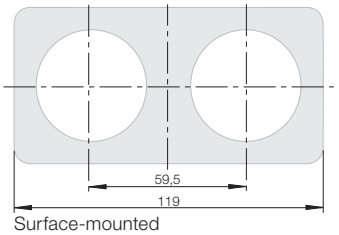
Surface-mounted housing

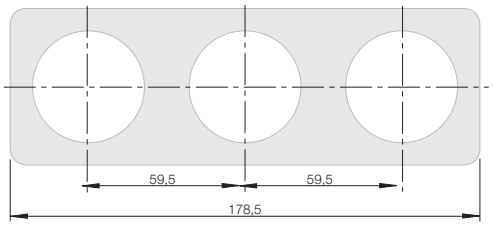


1.7 Berker Integro Classic

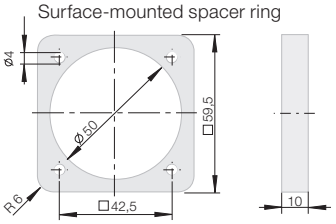
Dimensional drawings



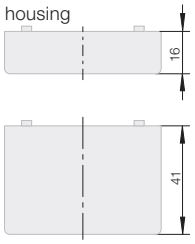




Surface-mounted spacer ring

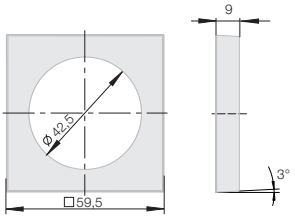


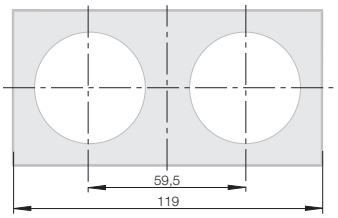
Surface-mounted housing



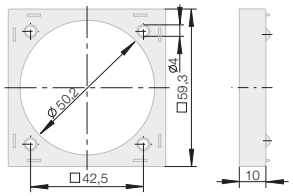
1.8 Berker Integro Pure

Dimensional drawings

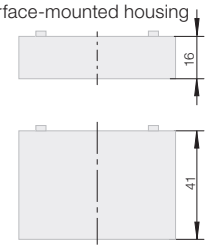




Surface-mounted spacer ring



Surface-mounted housing



2 Integro Control System (ICS)

2.1 ICS control units [09 2701 25 0...]

Dimensional drawing

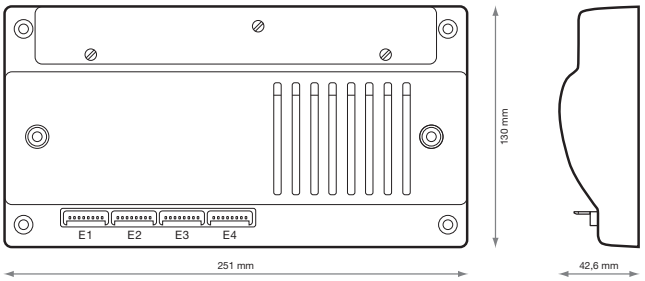
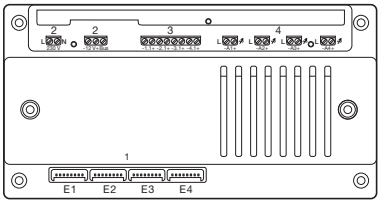


Fig. 1: Dimensions - ICS control unit

Connections



1 E1 - E4: Input slots for plug Stocko MKH 5138
2 Connections - power supply
3 1.1 - 4.1: Connections for 1 - 10V interfaces
4 A1 - A4: Output terminals for load connections

Fig. 2: Terminals and slots on the ICS control unit

The ICS control unit makes four input slots (1) available for ICS buttons. Each of the four slots is internally connected with all four outputs. This means that four circuits can be connected on each ICS control unit, and that each can be operated from four equally-authorised operating points (E1 to E4).

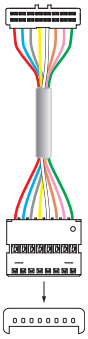
2.2 ICS control cables [09 270...]

A separate pre-assembled control cable must be provided for each ICS button. The pinout of the control cables depends on the button variant that will be installed - 2-gang, 3-gang, or 4-gang.

Fig. 3 shows the pinout of the 8-wire control cable for the ICS 4-gang illuminated button. The other control lines have the following pinouts:

- 3-wire for 2-gang button: white, brown, green - T2, T1, ground
- 4-wire for 2-gang button: yellow, white, brown, green - T3, T2, T1, ground
- 4-wire for 2-gang illuminated button: white, brown, pink, green - T2, T1, 12V, ground
- 5-wire for 4-gang button: grey, yellow, white, brown, green - T4, T3, T2, T1, ground

In some cases the coloured wires of the control cables are assigned to different PINs on the pre-assembled plugs.



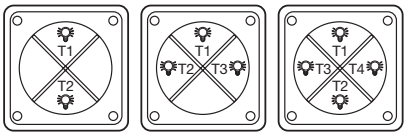
PIN	Signal	Colour
1	Function light + 12 V	red
2	Function light + 5 V	blue
3	Button T4	grey
4	Button T3	yellow
5	Button T2	White
6	Button T1	brown
7	Backlighting + 12 V	pink
8	Ground	green

Fig. 3: Pinout - plugs and input slot on the ICS control unit for connecting a 4-gang ICS button

2.3 ICS button [09 36...]

The ICS buttons have been developed for operation of the circuits connected to the ICS control unit.

When connected via a pre-assembled ICS cable the maximum 4 button segments on the buttons have the following pinouts:



T1: Control output A1
T2: Control output A2
T3: Control output A3
T4: Control output A4

Fig. 4: Pinout of the button segments on ICS buttons 2-gang, 3-gang, 4-gang

In addition ICS buttons are available in 2-gang and 4-gang variants that can be backlit via yellow LEDs. On the 4-gang button two additional red LEDs are integrated behind T2 and T3. In the most extended configuration these LEDs show the status of the two connected circuits on the outputs A2 and A3. The respective LED is illuminated when the load is switched on

Control function

Function	Switch-on/ switch-off	Adjust (dim) value	Save (dim) value
Pressing	less than 0.6 sec.	longer than 0.6 sec.	3 x less than 0.4 sec.

When dimming a light it is first dimmed upward to 100%, remains briefly in this setting, and then it is dimmed downward.

2.4 Application examples Integro Control System

Several wiring examples with ICS control units in the variant with 230 V input voltage are shown below as illustrations.

The maximum load of the ICS control units is reached when four switching circuits that must be activated via an ICS 4-gang button are connected. The other three inputs can likewise each be assigned to an ICS 4-gang button. The four switching circuits can then be controlled with each individual ICS button.

The coloured wires of the control lines reflect the corresponding PIN assignments and connection terminals on the ICS control unit.

The application examples in accordance with Fig. 5, 8, and 9 can also be implemented in the ICS control unit variant with 12 V input voltage.

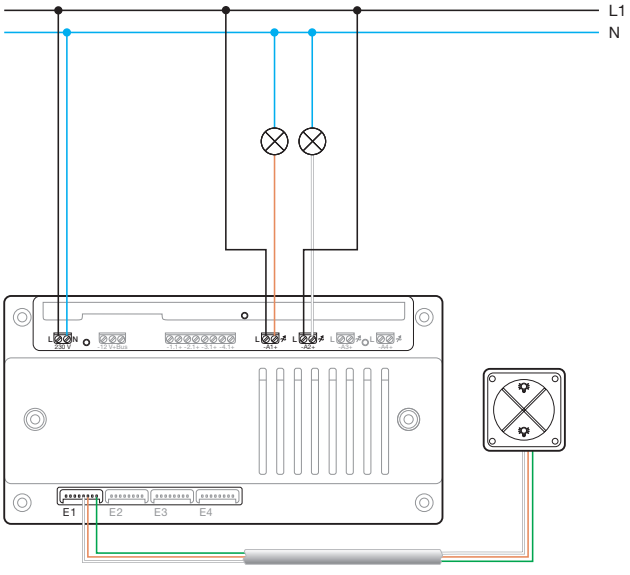


Fig. 5: Switching and dimming 230 V light fixtures, transformers and power boosters

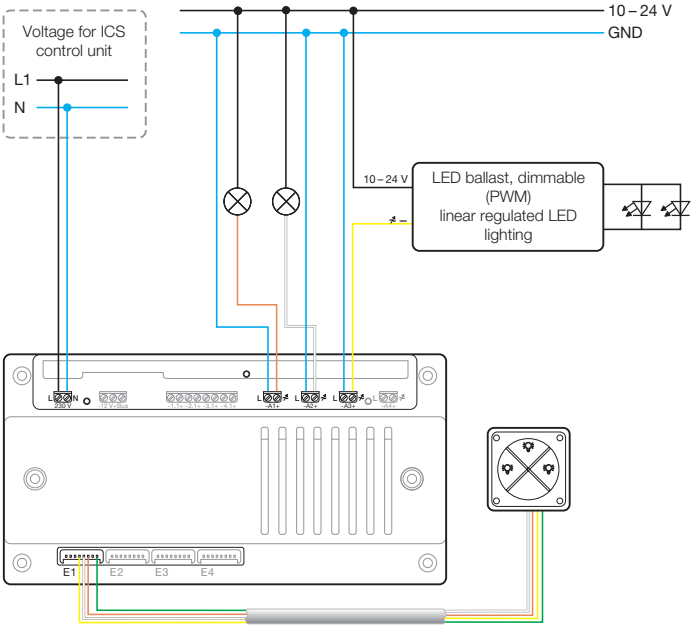


Fig. 6: Switching and dimming 12 V light fixtures and LEDs

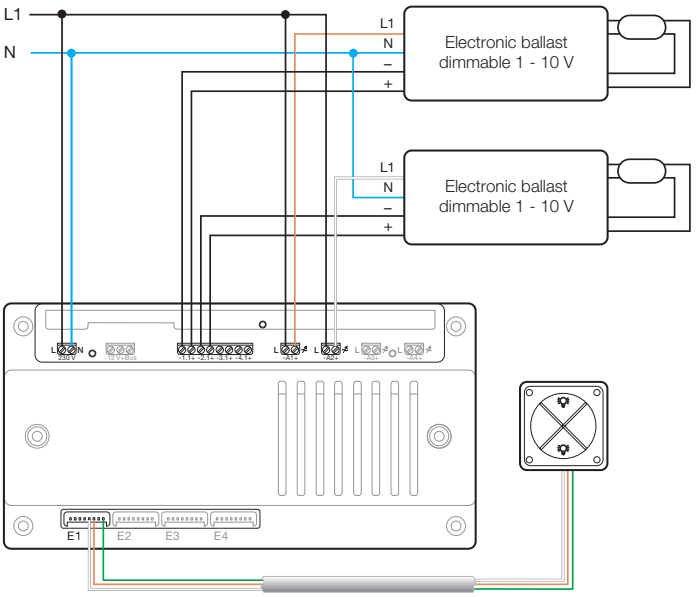


Fig. 7: Switching and dimming of fluorescent bulbs or energy-savings bulbs via 1 - 10 V interfaces

Setting and saving the dim value (Fig. 5 - 7)

- Press button segment, e.g. **T1**, for less than 0.6 s.
  Light switches on.
- Press **T1** again and keep it depressed until the dim value is set.
- Press **T1** less than 0.4 s three times.
  Dim value has been saved.

The next time the light is switched on this dim value will be called up.

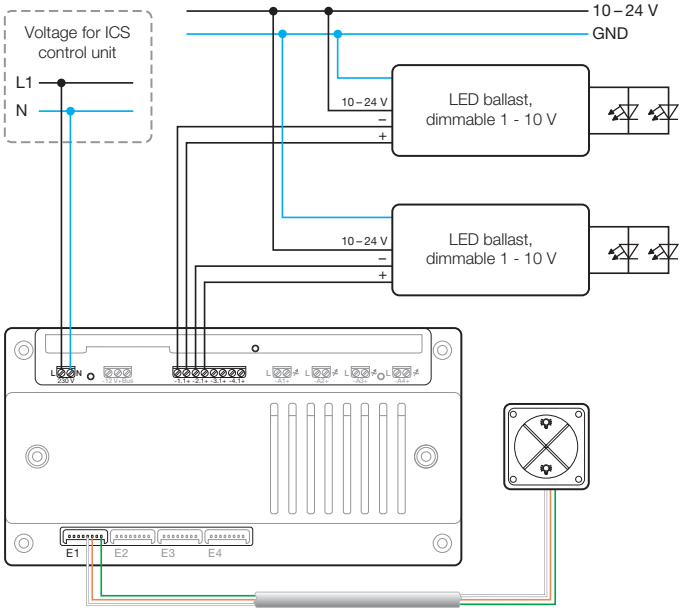


Fig. 8: Switching and dimming of LEDs

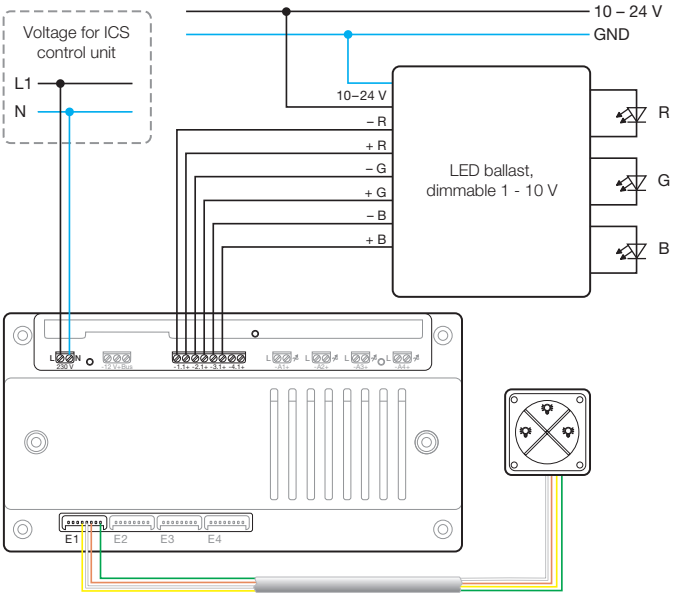


Fig. 9: Switching and dimming of RGB LEDs

Operation with LED

Direct voltage is applied on the LED operating device. LEDs require a minimum voltage to switch on; this value is manufacturer dependent.

Dimming an LED light (Fig. 8)

- Press button segment, e.g. **T1**, for longer than 0.6 s.
  LED switches on after the minimum voltage has been exceeded.
- Keep **T1** depressed until the dim value is set.

Some LED operating devices can also be switched via the ICS control unit (switching via ground). Comply with the instructions provided by the manufacturer.

Adjusting LED light colours (Fig. 9)

- Press button segment, e.g. **T1**, for longer than 0.6 s.
  The red LED switches on after the minimum voltage has been exceeded.
- Keep **T1** depressed.
  The red LED runs through its colour spectrum until the **T1** is released.
- Repeat the procedure with **T2** (yellow LED) and **T3** (blue LED).

Depending on the LED operating device the brightness will also change corresponding to the light colour.

3 Berker TS sensor

3.1 Glass sensor [168...]

Combination possibilities of glass sensors and ICS control unit(s)

Glass sensors enable activation of the ICS control unit. A maximum of four separate switch circuits can be controlled with one ICS control unit.

Additional control units must be provided if more than four switch circuits are required, e.g. for 3-gang or 4-gang glass sensors.

Variant Glass sensor	Quantity	Controllable switch circuits	Required ICS control units	Control cable type
1-gang	1	2	1	4-wire*)
1-gang	2	4	1	8-wire
2-gang	1	4	1	8-wire
3-gang	1	6	2	1 x 8-wire and 1 x 4-wire*)
4-gang	1	8	2	2 x 8-wire

*) ICS control cable LiYY 4-wire, order no.: 09 2703 25 0..

Table 1: Combination actuator technology glass sensors with ICS control .

Each of the four input slots of the control unit is internally connected with all four outputs. This means that each of the four connected operating points can control the four outputs with equal authorisation.

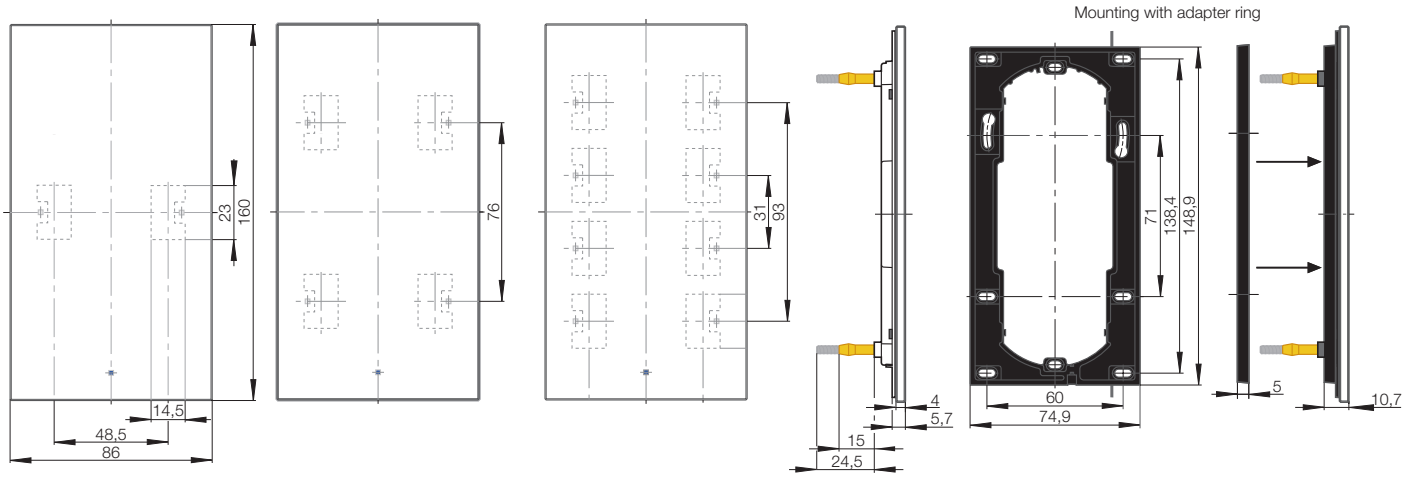
The variant of the ICS control unit must be selected depending on the glass sensor. Only the installation environment and the consumers that will be connected determine the execution variant of the control unit.

Dimensions summarised

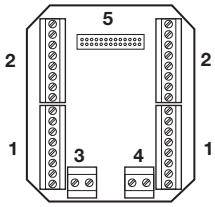
Glass sensor	Order no. 168...
Dimensions of the glass plate (B x W x D)	86 x 160 x 4 mm
Overall height: - Wall-mounted - With adapter ring	 5.7 mm 10.7 mm
Surface adjustment	Max. 20 mm
Phasing of the glass plate	0.5 mm, 45°

Dimensional drawings

The dimensions of the 3-gang glass sensor are determined from the dimensions of the 1-gang and 2-gang variant.



3.2 Adapter for KNX/EIB and relay [7590 00 32]

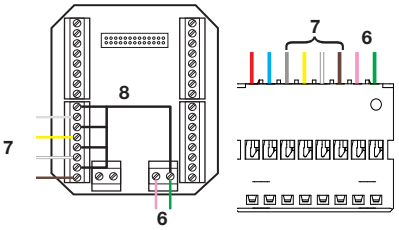


1 Connection inputs
2 Connection status LED
3 Connection operating LED
4 Connection power supply (8 to 30 V DC)
5 Slot for ribbon cable to the glass sensor

Connection of the adapter

One ICS control unit or one relay per input can be connected on the screw terminals of the adapter for KNX/EIB and relay. The adapter is connected to the glass sensor via the provided ribbon cable and supplies the sensor with power. Likewise actions on the glass sensor are transmitted to the connected controller via the cable through the adapter.

If an ICS control unit is connected, the ICS control unit makes the supply voltage available. For other applications, e.g. relay activation, a separate power supply must be provided in the planning.



6 Supply voltage connection
7 Connection of the control channels,
brown: channel 1
white: channel 2
yellow: channel 3
grey: channel 4
8 Ground jumpers

Fig. 1: Connection pinout of the adapter

Fig. 1 shows the pinout of the adapter inputs and of the plug when using an 8-wire control cable with Stocko MKH 5138 plug to activate the ICS control unit with 2-gang glass sensor.

The pinout of the plug on the input determines activation of the output channels of the ICS control unit (Fig. 1, 7). With the 2-gang glass sensor all four output channels of the ICS control unit are activated.

Pre-assembled 3-wire, 4-wire, 5-wire, and 8-wire control cables with plugs an both ends can be purchased in lengths of 1 m, 2 m, 3 m, 5 m, 7,5 m und 10 m [ICS control line LiYY-...wire, order no.: 09 270...].

A separate pre-assembled control cable must be provided for each operating point.

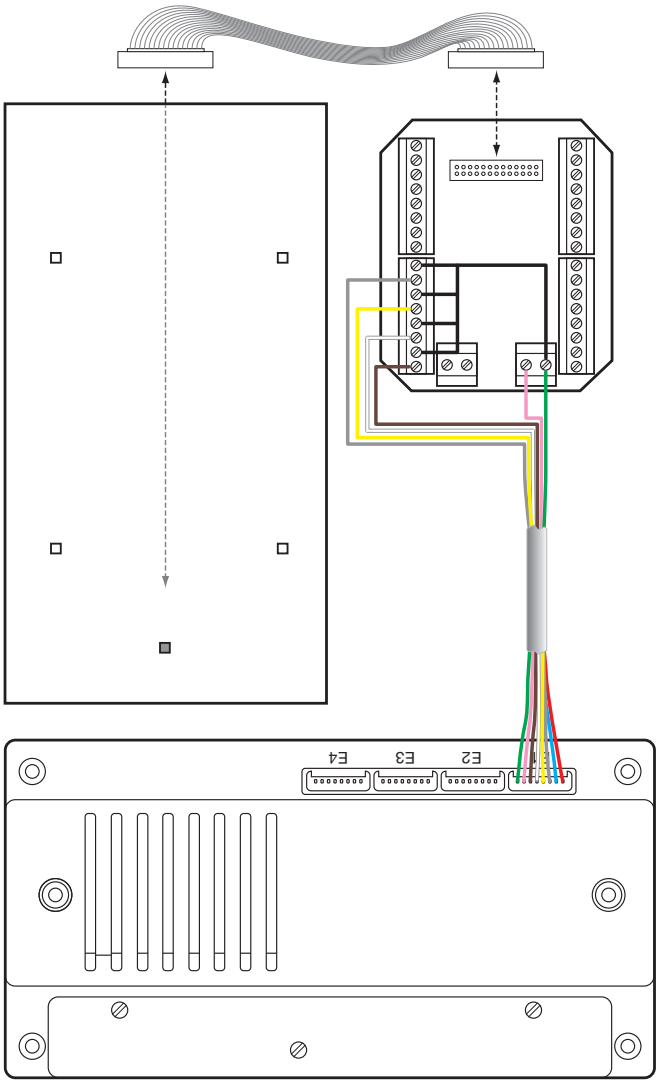


Fig. 2: Connection of the 2-gang glass sensor on the ICS control unit

Wire the glass sensor to the ICS control unit via the adapter

- Fit the plug for the operating point on the end of the control cable and prepare the ends of the wires.

Alternatively the control cable can be pre-assembled from a LiYY 8 x 0.25 mm² cable with a Stocko MKH 5138 connector (Fig. 1).

- Connect wires to the screw terminals of the adapter in accordance with the connection pinout (Fig. 1, 7).

The red and blue line are not required for activation of the glass sensor.

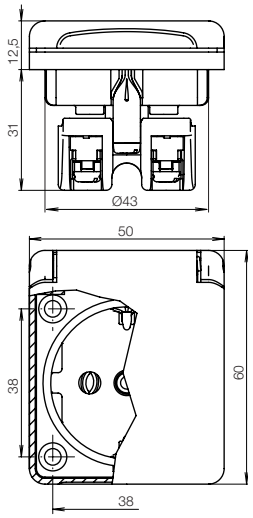
- Establish the connections between the ground connections via cable bridges (Fig. 1, 8).
- Connect the supply voltage via pink and green cable wires on the adapter (Fig. 1,6).
- Insert the ribbon cable on the rear of the glass sensor and connect it to the slot on the adapter (Fig. 1, 5).

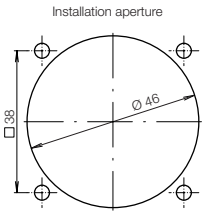
  The glass sensor is ready for operation as soon as the ICS control unit is supplied with power.

4. Built-in socket outlets

4.1 Built-in socket outlets SCHUKO

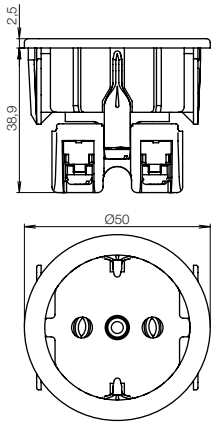
4.1.1 Built-in socket outlet SCHUKO with hinged cover 50 x 60 mm

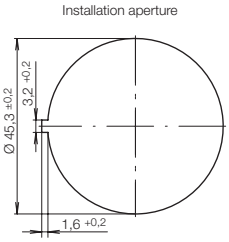




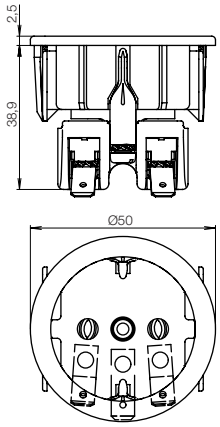
4.1.2 Built-in socket outlet SCHUKO with centre plate Ø 50 mm "SNAP IN"

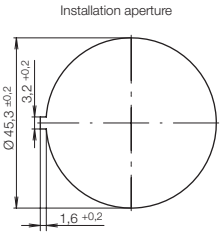
- for different installation wall thicknesses





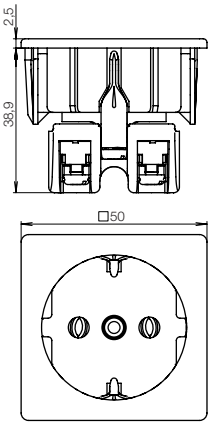
4.1.4 Built-in socket outlet SCHUKO with centre plate Ø 50 mm "SNAP IN" 0.6 - 1.5 mm, with fast-on terminal connectors

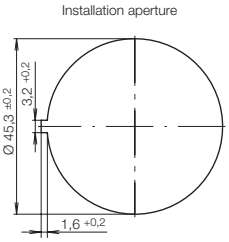




4.1.4 Built-in socket outlet SCHUKO with centre plate 50 x 50 mm "SNAP IN"

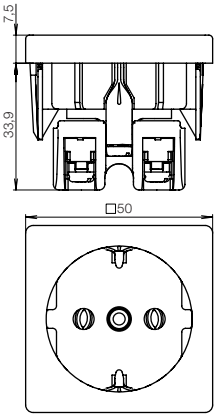
- for different installation wall thicknesses

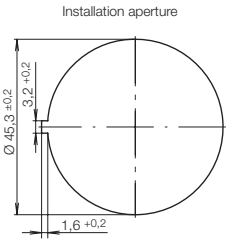




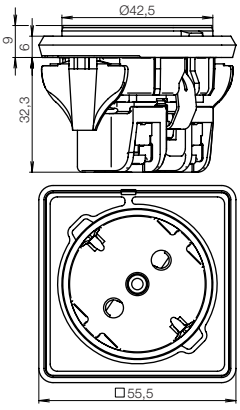
4.1.5 Built-in socket outlet SCHUKO with centre plate 50 x 50 mm "SNAP IN" 0.6 - 1.5 mm

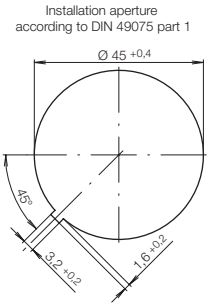
- insertion depth 33.9 mm



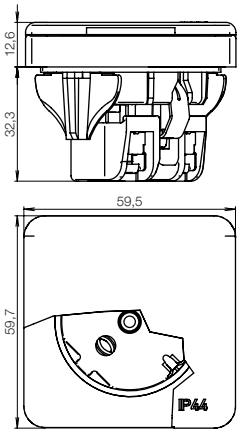


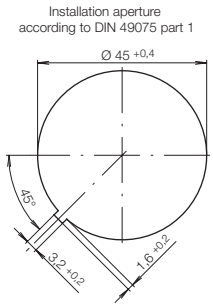
4.1.6 Built-in socket outlet SCHUKO 45° "SNAP IN" 1.3 - 2.2 mm





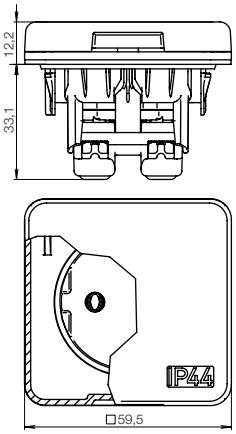
4.1.7 Built-in socket outlet SCHUKO 45° with hinged cover "SNAP IN" 1.3 - 2.2 mm

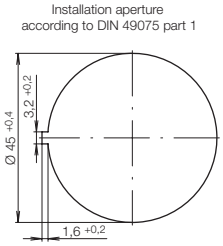




4.1.8 Built-in socket outlet SCHUKO with hinged cover 59.5 x 59.5 mm IP44 "SNAP IN"

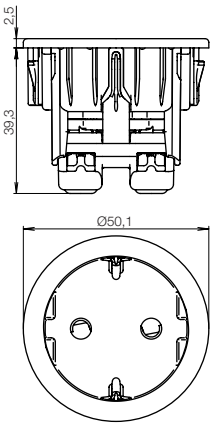
- For different wall thicknesses

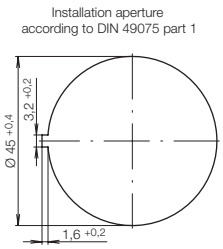




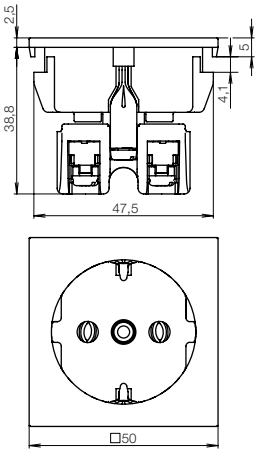
4.1.9 Built-in socket outlet SCHUKO with centre plate Ø 50 mm "SNAP IN"

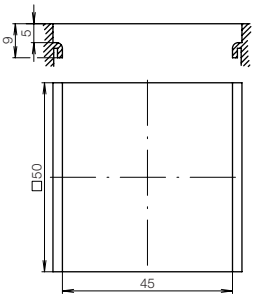
- for different built-in wall thicknesses



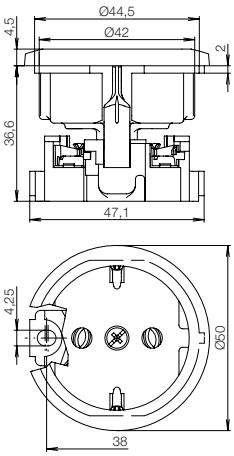


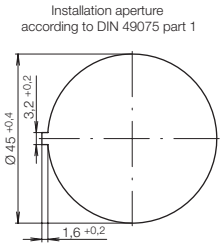
4.1.10 Built-in SCHUKO socket outlet with centre plate 50 x 50 mm "SNAP IN" 4 mm



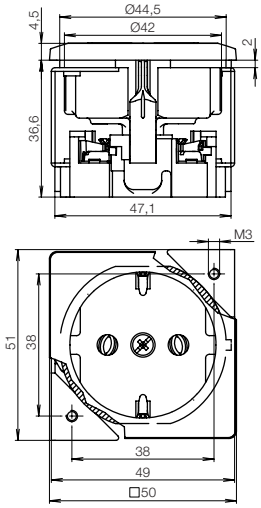


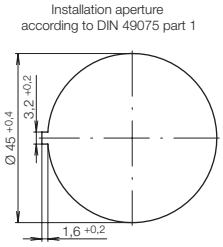
4.1.11 Built-in socket outlet SCHUKO with centre plate Ø 50 mm



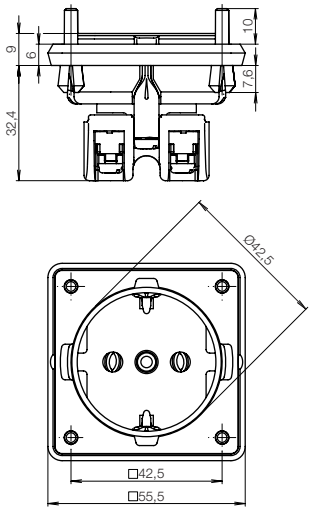


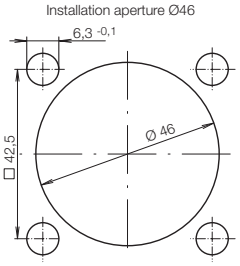
4.1.12 Built-in socket outlet SCHUKO with centre plate 50 x 50 mm and support bracket



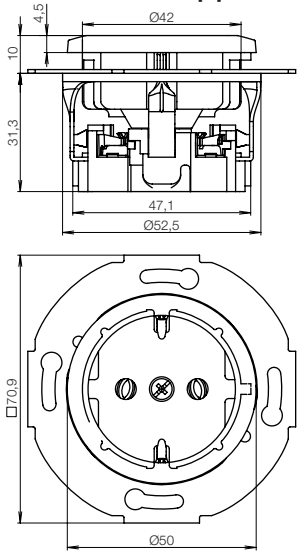


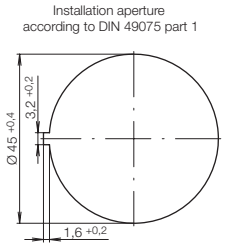
4.1.13 Built-in socket outlet - SCHUKO with domes

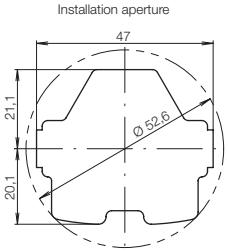




4.1.14 Built-in socket outlet SCHUKO with centre plate Ø 50 mm and support ring



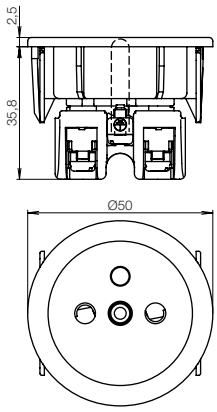


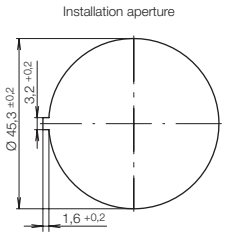


4.2 Built-in socket outlets with earth pin

4.2.1 Built-in socket outlet with earth pin and central plate Ø 50 mm, "SNAP IN"

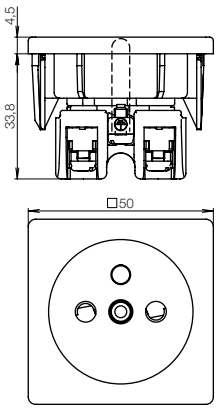
- For different built-in wall thicknesses

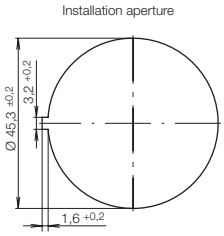




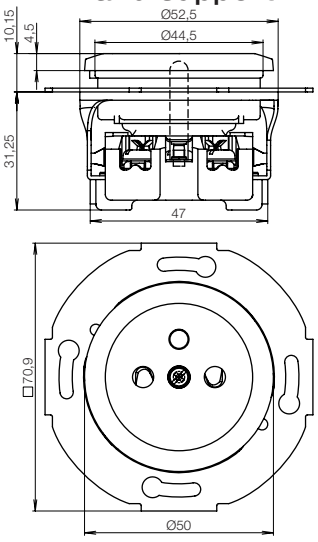
4.2.1 Built-in socket outlet with earth pin and central plate 50 x 50 mm, "SNAP IN"

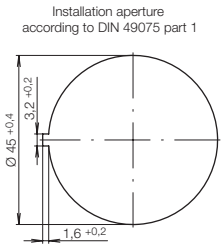
- For different built-in wall thicknesses

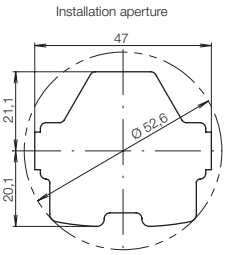




4.2.3 Built-in socket outlet with earth pin, centre plate Ø 50 mm and support ring

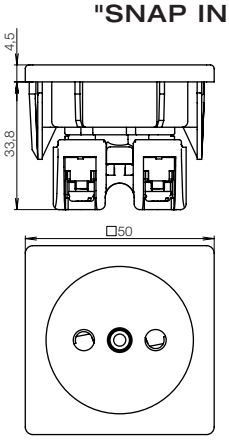


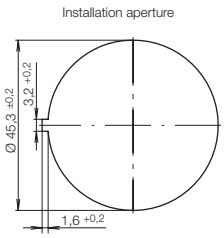




4.3 Built-in socket outlet without earth contact

4.3.1 Built-in socket outlet without earth, with centre plate 50 x 50 mm, "SNAP IN" 3 mm



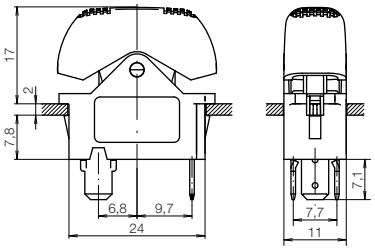


5. Appliance switches

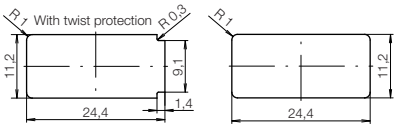
5.1 Rocker switches/rocker buttons

5.1.1 Series RH 1

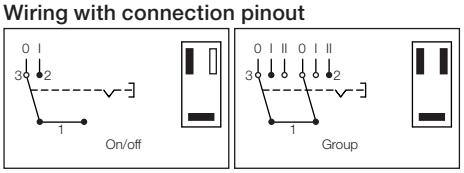
Dimensions



Installation aperture

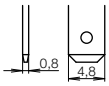


Wiring with connection pinout



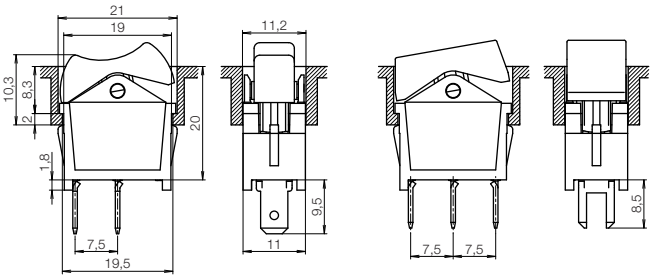
Type of connection

Fast-on terminal connector 4.8

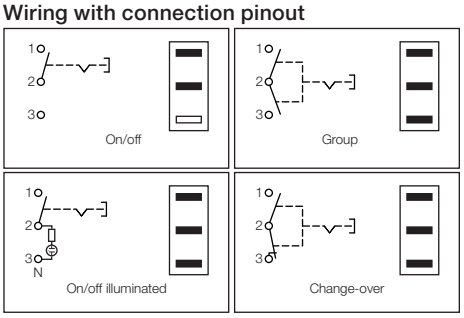


5.1.2 Series RS 1

Dimensions



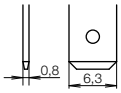
Wiring with connection pinout



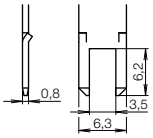
Connection types

Fast-on terminal connector 4.8

Fast-on terminal connector 6.3

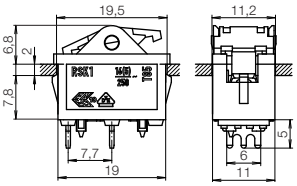


solder webs

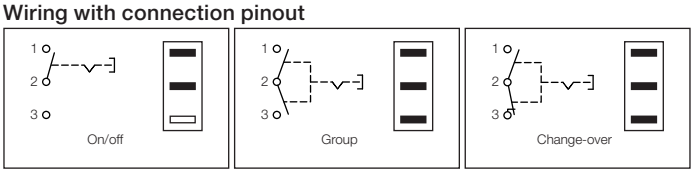


5.1.3 Series RSK 1

Dimensions

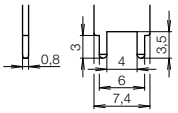


Wiring with connection pinout

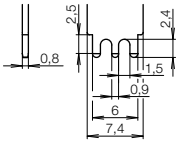


Connection types

Solder connection

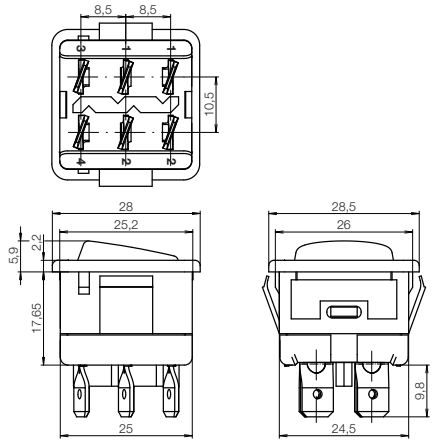


solder connection

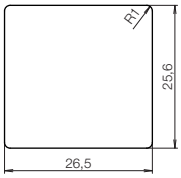


5.1.4 Series RW 2

Dimensions

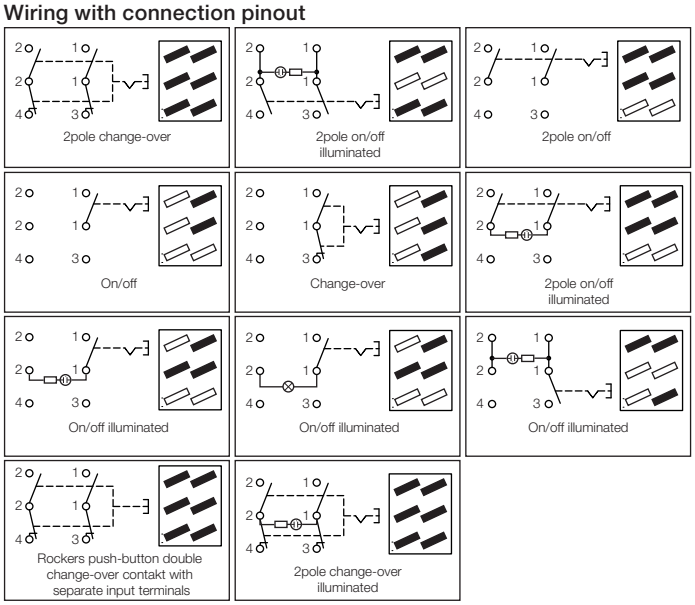


Installation aperture



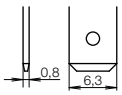
The dimension information of the installation aperture is non-binding. Deviations are pssible depending on wall thickness (0,6 - 2 mm).

Wiring with connection pinout



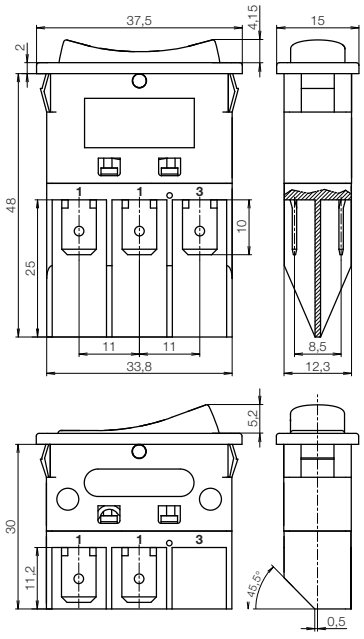
Type of connection

Fast-on terminal connector 6,3

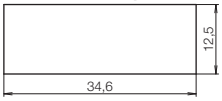


5.1.5 Series WF 2

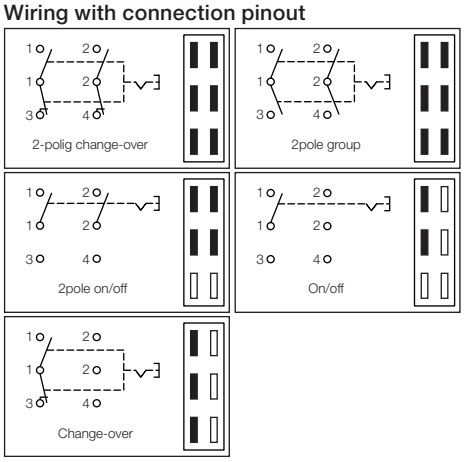
Dimensions



Installation aperture



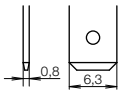
Wiring with connection pinout



Connection types

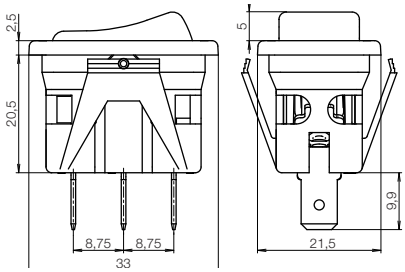
Fast-on terminal connector 4,8

Fast-on terminal connector 6,3

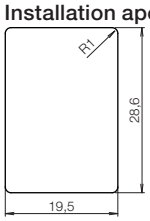


5.1.6 Series WKR 1

Dimensions

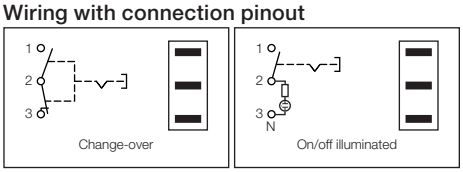


Installation aperture



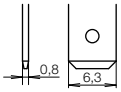
The dimension information of the installation aperture is non-binding. Deviations are pssible depending on wall thickness (0,6 - 2 mm).

Wiring with connection pinout



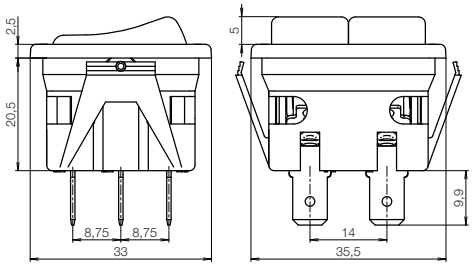
Type of connection

Fast-on terminal connector 6,3

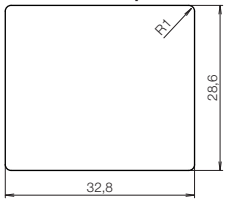


5.1.7 Series WKR 2

Dimensions

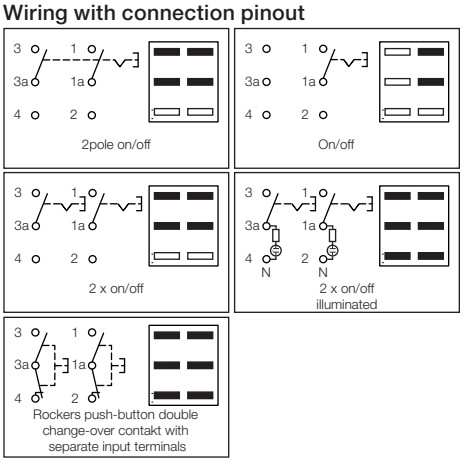


Installation aperture



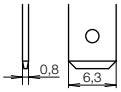
The dimension information of the installation aperture is non-binding. Deviations are pssible depending on wall thickness (0,6 - 2 mm).

Wiring with connection pinout



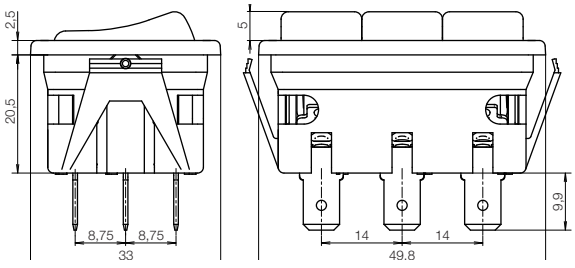
Type of connection

Fast-on terminal connector 6,3

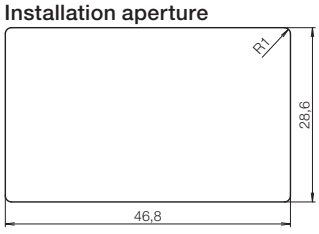


5.1.8 Series WKR 3

Dimensions

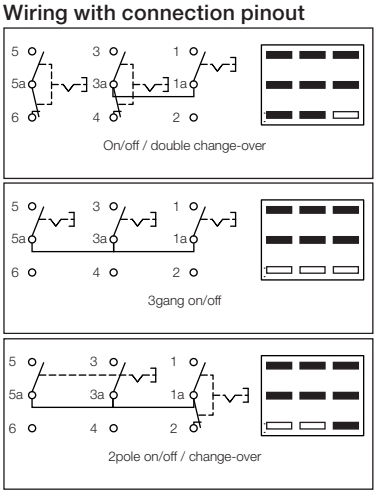


Installation aperture



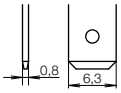
The dimension information of the installation aperture is non-binding. Deviations are pssible depending on wall thickness (0,6 - 2 mm).

Wiring with connection pinout

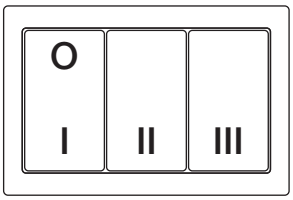


Type of connection

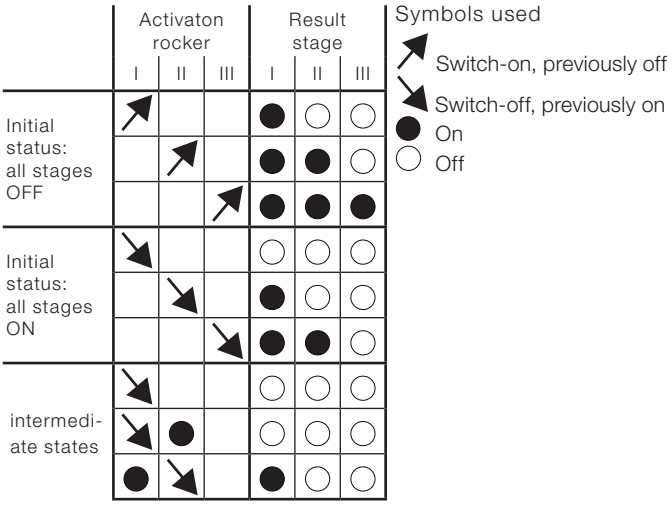
Fast-on terminal connector 6,3



Operation example: Rocker switch 3 x off

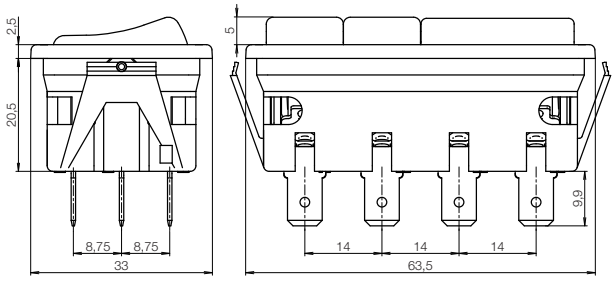


The stages of the rocker switch can be switched sequentially or they can also be switched directly on or off. When switching on at a higher stage II or III the smaller lower is also switched via the carriers between the rockers. When switching off on a lower stage the higher stages are also switched.

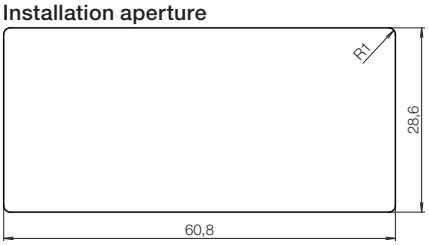


5.1.9 Series WKR 4

Dimensions

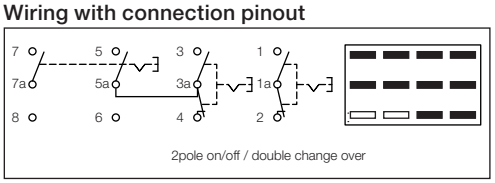


Installation aperture



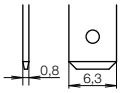
The dimension information of the installation aperture is non-binding. Deviations are pssible depending on wall thickness (0,6 - 2 mm).

Wiring with connection pinout



Type of connection

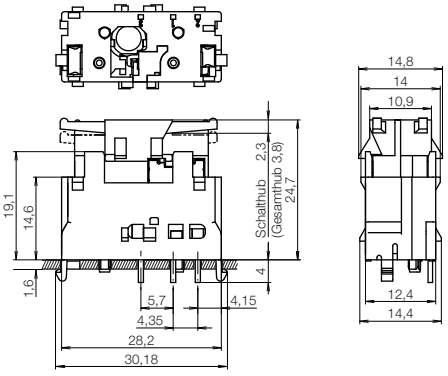
Fast-on terminal connector 6,3



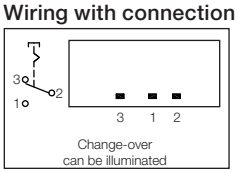
5.2 Push-button switch

5.2.1 Series DKW

Dimensions

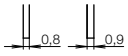


Wiring with connection pinout

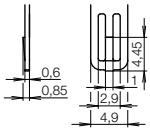


Connection types

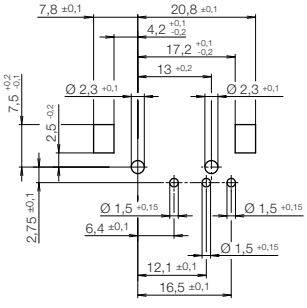
Solder connection



lead frame

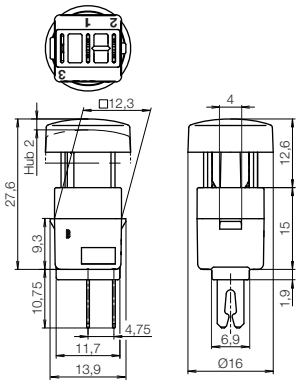


Hole pattern recommendation for solder connection (component side)

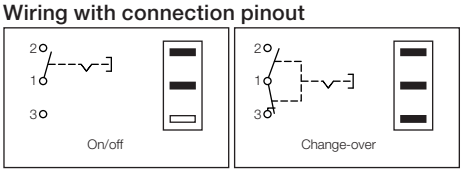


5.2.2 Series DTS 1

Dimensions

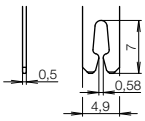


Wiring with connection pinout



Type of connection

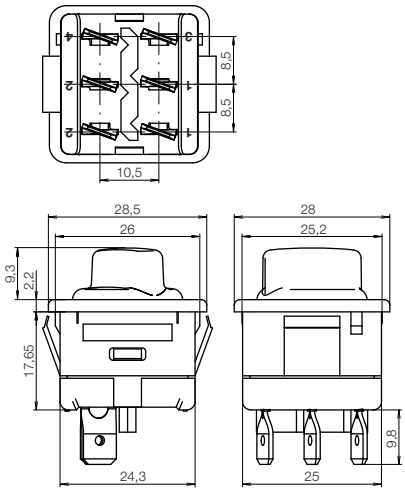
leadframe



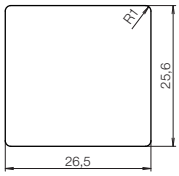
5.3 Rotary switches

5.3.1 Series RD 2

Dimensions

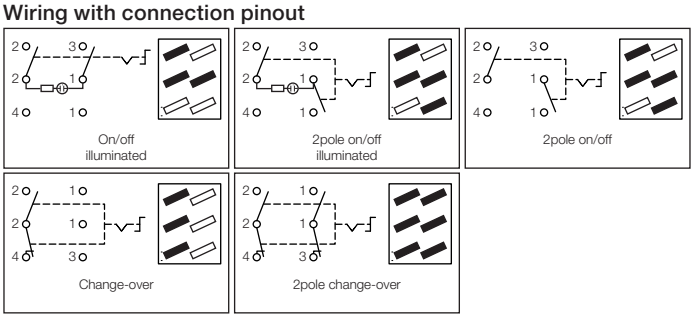


Installation aperture



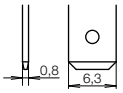
The dimension information of the installation aperture is non-binding. Deviations are pssible depending on wall thickness (0,6 - 2 mm).

Wiring with connection pinout



Type of connection

Fast-on terminal connector 6,3



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 Verband Deutscher Elektrotechniker apply insofar as they are taken into consideration 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 are to be returned without delay if the order is not placed. This applies accordingly to the Buyer's documents. However, these may be made available to third parties to whom the 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 unaltered form on the agreed equipment.

The Buyer may not assign or make this software 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.

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. If the Buyer remains in arrears in respect of 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 original condition. Furthermore in the event of enforcement by writ in respect of the Buyer's assets, composition or bankruptcy proceedings, discontinuation of business operations or the transfer of a business as well as seizure, all the Supplier's accounts receivable shall fall due without delay.
The Supplier is to be informed without delay of any considerable deterioration in the financial position (e.g. enforcement by writ, discontinuation of payment, composition, bankruptcy, discontinuation of business operations, the transfer of a business, seizure or the transfer of goods, inventories or outstanding items as a guarantee).

3. Delivery periods
Details in the confirmation of order are authoritative in respect of the delivery period. Adherence to the period is conditional on the following: the timely receipt of all documents, 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 requirements 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 notification of the readiness to dispatch.
If the non-adherence to the period for deliveries is proven to be attributable to force majeure, industrial disputes or unforeseeable obstructions, the period shall be extended accordingly.

In the event that the agreed or extended delivery period is not adhered to, the Buyer may, insofar as it furnishes proof that it has suffered damage as a result of the delay, demand compensation for delayed performance for each full week of delay from _% to a total of 5% of the value of the part of 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 to withdraw following the lapse of a reasonable extension granted to the Supplier.

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 shall insure the consignment against customary transport risks. If the shipping is delayed at the Buyer's request, or for reasons for which the Buyer is responsible, the risk shall pass to the Buyer from the day on which the goods are ready for dispatch. In such a case the Supplier shall be under obligation to bring about the insurance policies requested by Buyer at the Buyer's cost.

If goods are taken back, the Buyer shall bear the risk up to the receipt at the Supplier's premises.

5. Reservation of title
The delivery items (reserved goods) shall remain the Supplier's property until all the claims against the Buyer to which it is entitled from the business association are met. Prior to this pledging or ownership transfer by way of security are prohibited.

The Buyer may only sell the reserved goods, regardless of their condition, to resellers during the ordinary course of business subject to the proviso that it is not in arrears with payments due to the Supplier and that it assigns to the Supplier at this point in time claims, including 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 disclose to the Supplier the amounts and debtors in relation to the assigned claims, to make available to the Supplier without 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 obligation. 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 shall store these with commercial diligence on behalf of the Supplier. In the event of a sale of the new items, the Buyer hereby assigns to the Supplier its claims and accessory rights resulting from such a sale for safety's 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 Supplier is entitled. The Buyer is to ward off or inform the Supplier without delay of cases of seizure 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.

6. Prices
The prices are stated in euros. They are ex works prices and exclude packaging and are to be construed plus the respective valid statutory value added tax.

In the case of goods purchased in a single order in excess of € 1,000.00 we shall deliver free of charge, carriage paid, to the receiving station excluding packaging.
In the case of such an order in excess of € 2,500.00 we shall deliver free of charge, carriage-paid, to the receiving station including packaging.

7. Terms and conditions of payment
Payments are to be effected within 30 days 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 bill of exchange rule out the deduction of a trade discount. Cheques shall only be accepted subject to the customary reservations, while bills of exchange shall only be accepted following a special agreement and if 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 the bill of exchange to the Supplier. In the case of all kinds of payment the day of performance shall be deemed the day on which the Supplier can dispose of the amount.

In the event that the term of payment is exceeded, or the delivery is delayed, at the Buyer's request by more than 30 days once the goods are ready for dispatch, the Supplier shall be entitled, without the 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 for 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 be en-
titled to demand the surrender of the goods and claim for damages as a result of non-performance.

The Buyer may only set off undisputed or res judicata claims against the Supplier's claims.

8. 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 Supplier 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 proper manner the requirement to give notice of defects incumbent upon the Buyer 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 is 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 improved at the Supplier's discretion free of 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 to retain payment if the existence of a defect is res judicata or is not disputed by 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 refuses to do this the Supplier shall be released from the liability for defects.

5. If the Supplier allows a reasonable extension granted to the Supplier to lapse without rectifying the defect, or if the subsequent improvement is impossible or the Supplier refuses this, the Buyer may assert a right to reduce the purchase price. The Buyer may also demand conversion if an agreement n respect of abatement is not reached between the Buyer and Supplier.

6. 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 time 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 to damage that occurs following the passing 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 joint debtor by a third party for one of these reasons, the Buyer irrevocably assumes the liability at this point in time by way of internal arrangements.

If the Buyer or third parties carry out improper alterations or repair work, no warranty shall apply to these and the consequences resulting from them.

8. The warranty period for subsequent improvements and replacement deliveries is 3 months. It shall apply at least until expiry of the 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 compensation of damage not caused to the delivery item. This does not apply insofar as mandatory liability applies in accordance with the Product Liability Act, with the restriction in accordance with sub-section 7, or in cases of intent, gross negligence or the lack 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 for 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 parties is excluded. If mandatory legal norms do not allow for this comprehensive exemption from liability for software in certain cases, it shall nevertheless remain in place for all other cases.

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 /copyright (hereinafter Copyrights) by way of products delivered by the Supplier and used as per 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 reimbursement of the purchase price. Further-reaching claims against the Supplier are excluded.
b) The aforementioned obligation of the Supplier shall only apply if the Buyer informs the Supplier without delay of the claims lodged by third parties; does not recognise 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 violation is caused by the Buyer's special parameters or unforeseeable application or alteration or blending with other products.

10. Impossibility, contractual adjustment
1. If it becomes impossible for the Supplier to honour the delivery incumbent upon the Supplier for reasons, which are its responsibility, the Buyer shall be entitled to request as compensation up to 10% of the value of 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 delivery, of have an effect on the Supplier's operations, the Supplier shall be entitled to withdraw from the contract or to adjust the contact in agreement with the Buyer.

11. Other claims for damages
The following claims for damages lodged by the Buyer are excluded: claims on the grounds of a positive breach of contract, violation of obligations in the case of contractual negotiations and on the basis of unlawful 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 jurisdiction 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.

13. Binding force of contract
Even in the case of the legal invalidity of individual items, the binding force of the contract shall further apply to the other items of the contract.

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8860 00	200	88
8861 01	200	88
8865 50	200	88
8865 51	200	88
8866 51	200	88
8866 52	200	88

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