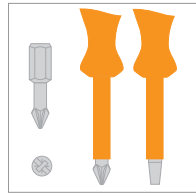


Installation instructions

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
- Slot screwdrivers: blade thickness 1 mm

Tool sizes for fixing screws:

- Cross-head bits: Pozi-Drive, size 1
- Cross-head screwdrivers: Pozi-Drive size 1.
- Slot screwdrivers: Blade thickness 0.8 mm.

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

International socket outlets

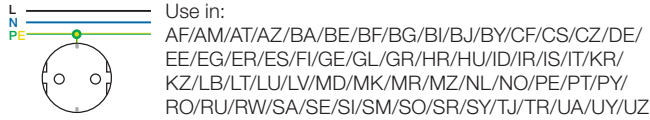


Fig. 1: SCHUKO socket outlet* - 2-pin + earth, 250 V~, 16 A



Fig. 2: Socket outlet with earthing pin FRANCE/BELGIUM* - 2-pin + earth, 250 V~, 16 A

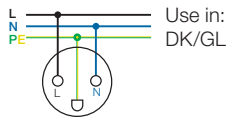


Fig. 3: Socket outlet with earthing contact DENMARK - 2-pin + earth, 250 V~, 13 A

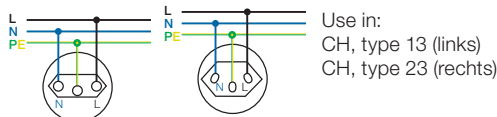


Fig. 4: Socket outlet with earthing contact SWITZERLAND - 2-pin + earth, type 13: 250 V~, 10 A; type 23: 250 V~, 16 A

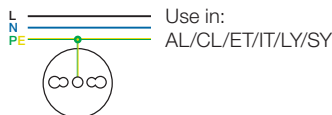


Fig. 5: Socket outlet with earthing contact ITALY* - 2-pin + earth, 250 V~, 16 A

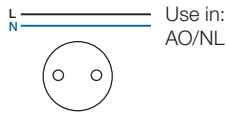


Fig. 6: Socket outlet without earthing contact NETHERLANDS* - 2-pin, 250 V~, 16 A



Fig. 7: Socket outlet with earthing contact BRITISH STANDARD, standard: BS 1363 Part 2 - 2-pin + earth, 250 V~, 13 A

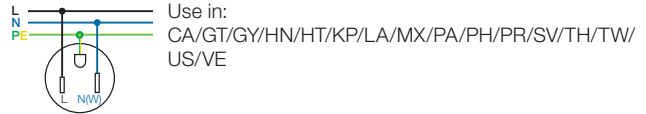


Fig. 8: Socket outlet with earthing contact USA/CANADA NEMA 5-15 R - 2-pole + earth, 125 V~, 15 A

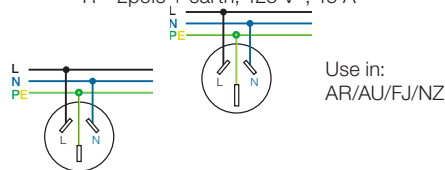


Fig. 9: Socket outlet with earthing contact AUSTRALIA - 2-pin + earth, 250 V~, 10 A (left Fig.); 250 V~, 15 A (right Fig.)

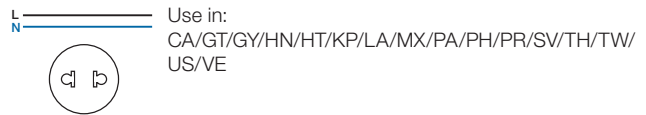


Fig. 10: Socket outlet without earthing contact EURO-AMERICAN STANDARD* - 2-pin, 250 V~, 10 A

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

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=Cyprus; 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; LC=Liberia; LT=Lithuania; LU=Luxemburg; LV=Latvia; LY=Libya; MA=Morocco; MD=Moldavia; MG=Madagascar; MK=Macedonia; ML=Mali; MR=Mauritania; MT=Malta; MW=Malawi; MX=Mexico; MY=Malaysia; MZ=Mozambique; NL=Netherlands; NO=Norway; NZ=New Zealand; OM=Oman; PA=Panama; PE=Peru; PH=Philippines; PL=Poland; PR=Puerto Rico; PT=Portugal; PY=Paraguay; RO=Rumania; RU=Russia; RW=Ruanda; SA=Saudi Arabia; SE=Sweden; SI=Slovenia; SK=Slovakia; SL=Sierra Leone; SM=San Marino; SN=Senegal; SO=Somalia; SR=Surinam; SV=El Salvador; SY=Syria; TD=Chad; TG=Togo; TH=Thailand; TJ=Tajikistan; TM=Turkmenistan; TN=Tunisia; TR=Turkey; TW=Taiwan; TZ=Tanzania; UA=Ukraine; US=USA; UY=Uruguay; UZ=Uzbekistan; VE=Venezuela; VN=Vietnam; YE=Yemen; ZA=Zambia; ZW=Zimbabwe

Berker Integro

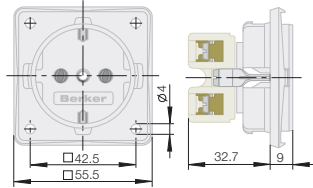
Module inserts

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

socket outlets

Dimensional drawing

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 with earthing contact, USA/CANADA, NEMA 5-15 R	19.5 mm
Socket outlet with earthing contact, USA/CANADA, NEMA 6-20 R	19.5 mm
Socket outlet with earth contact AUSTRALIA	16.5 mm
Socket outlet with earthing contact DENMARK	27.5 mm
Socket outlet with earthing contact ITALY	34.0 mm
EinbauöffnungSocket outlet with earthing contact, SWITZERLAND, type 13	28.0 mm
EinbauöffnungSocket outlet with earthing contact, SWITZERLAND, type 23	28.0 mm
Socket outlet with earth contact BRITISH STANDARD	20.5 mm
Socket outlet with earthing pin FRANCE/BELGIUM	29.5 mm
Socket outlet without earth contact NETHERLANDS	29.6 mm
Socket outlet without earthing contact EURO-AMERIKANISCHER STANDARD	21.3 mm

Table 1: Installation depth of different plug and socket systems

Audio/video modules

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.

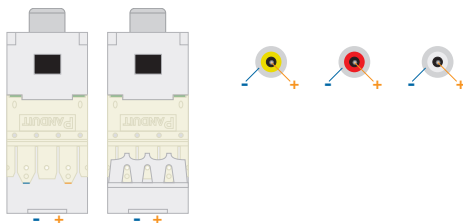


Figure 1: Pin assignments for cinch modules

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.

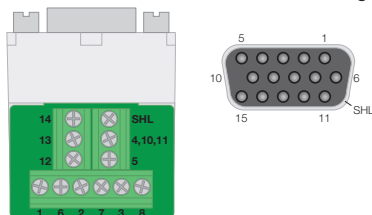
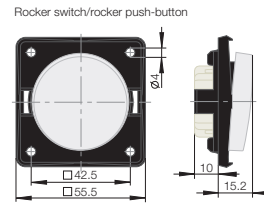


Fig. 2: Pinout of the VGA modules

Rocker switch/rocker push-button

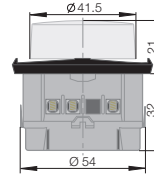
Dimensional drawing



Rotary dimmer with setting knob

Dimensional drawing

400W,
order no. 9 2871 ...



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

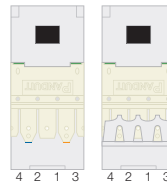
*Are connected together on one terminal.

Table 2: Contact pinouts of the VGA modules

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.

i Cable lengths should not exceed 10 m.



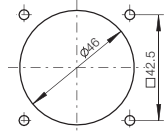
- 1 Luminance (Y) earth
- 2 Chrominance (C) earth
- 3 Intensity (luminance) Y
- 4 Colour (chrominance) C

Figure 3: Contact assignment of the S-Video module

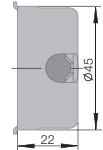
Contact protection boxes

Dimensional drawings

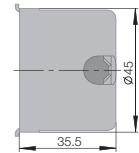
**Installation cutout
 Ø 46 mm**



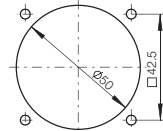
9 1820 01
 9 1820 03



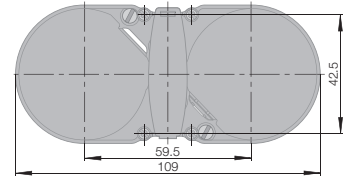
9 1820
 9 1820 02



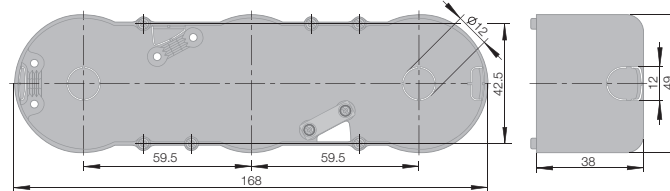
**Installation cutout
 Ø 50 mm**



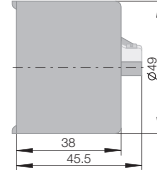
9 1915 01
 9 1915 02



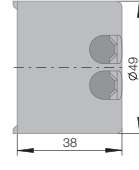
9 1933



9 1883

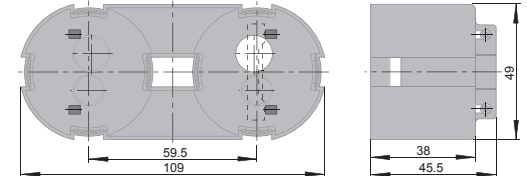


9 1887 01



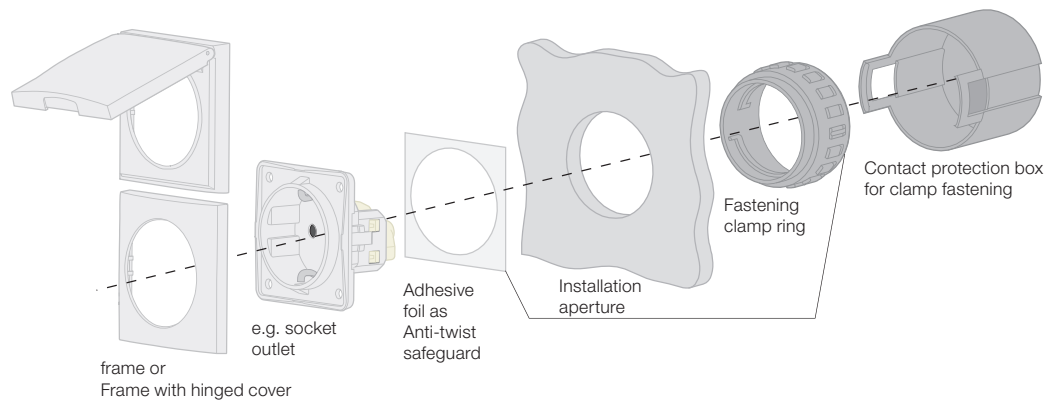
i The strain reliefs are not suitable for flat hose lines of 0.75 mm².

9 1911 ..
 9 1912 ..



Mounting with clamp fastening

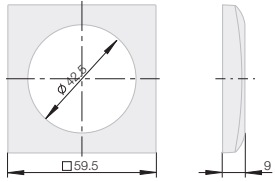
e.g. in a mirror



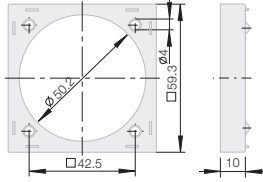
Berker Integro Flow

Dimensional drawings

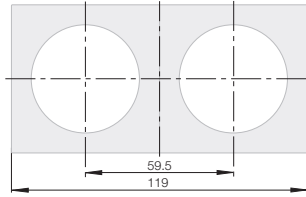
Frame 1gang



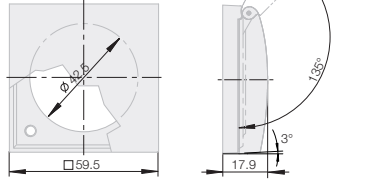
Surface-mounted spacer ring



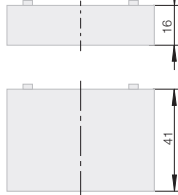
Frame 2gang



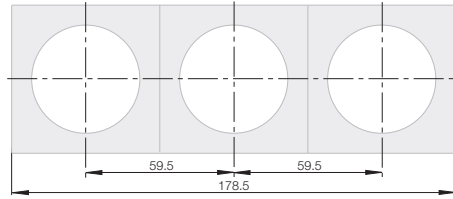
Frame with hinged cover



Surface-mounted housing



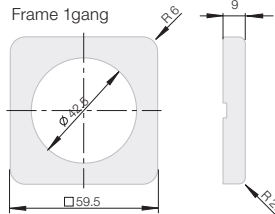
Frame 3gang



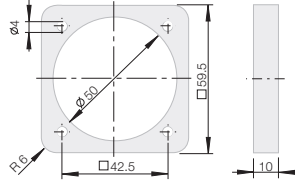
Berker Integro Classic

Dimensional drawings

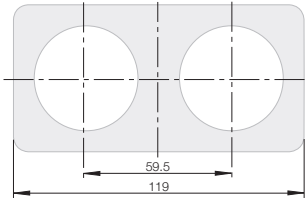
Frame 1gang



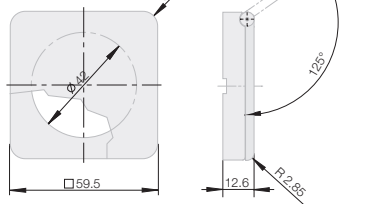
Surface-mounted spacer ring



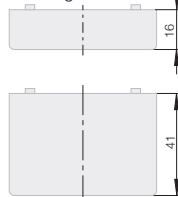
Frame 2gang



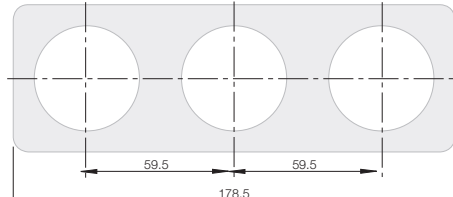
Frame with hinged cover



Surface-mounted housing



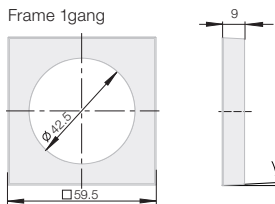
Frame 3gang



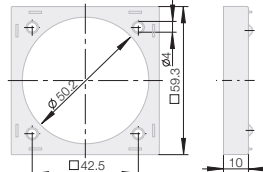
Berker Integro Pure

Dimensional drawings

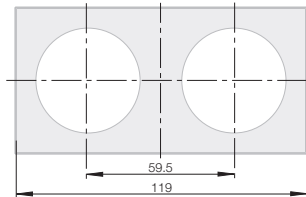
Frame 1gang



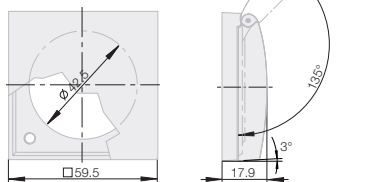
Surface-mounted spacer ring



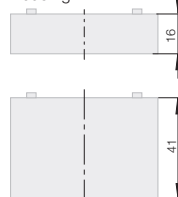
Frame 2gang



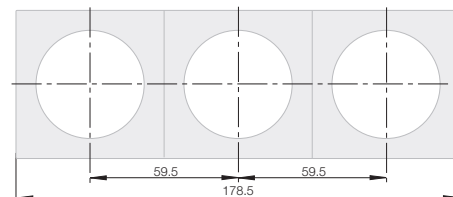
Frame with hinged cover



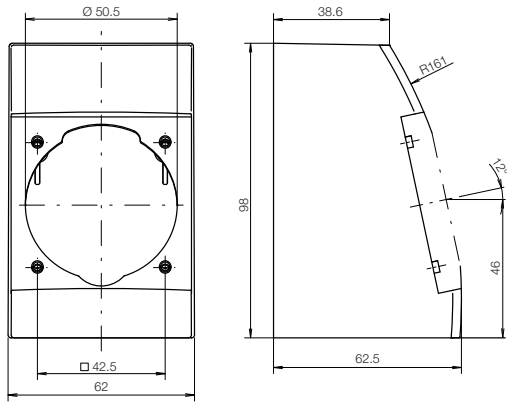
Surface-mounted housing



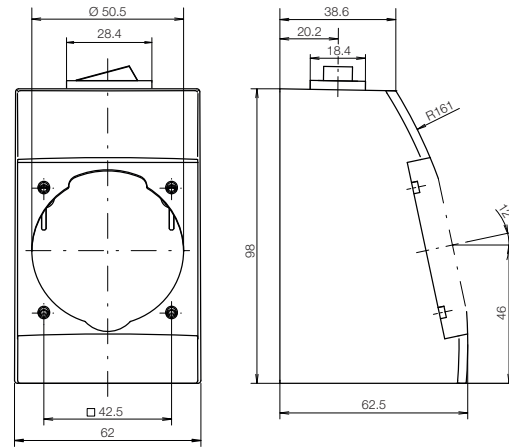
Frame 3gang



Integro Box - assembly set



Integro Box - assembly set with on/off switch



Integro Box - Installation instructions

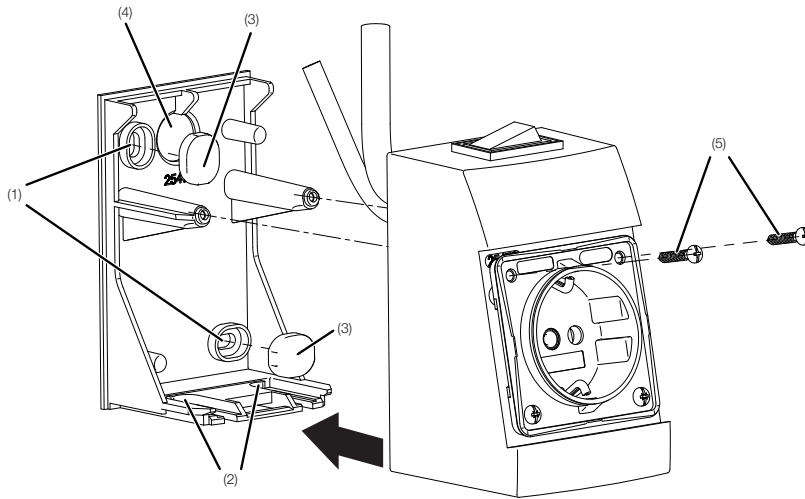


Figure 1: Lower part and cover

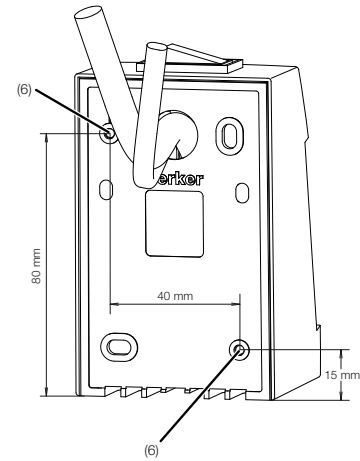


Figure 2: Dimensions for rear mounting of the complete device

- 1 Screw holes for mounting on mirror cabinet rear panel
- 2 Screw holes for mounting on mirror cabinet floor
- 3 Protection covers
- 4 Cable entry
- 5 Screws (supplied)
- 6 Fastening points for mounting the complete device

Mounting Integro Box

- Fasten lower part of the Integro Box to the mirror cabinet rear panel using suitable screws (1).
 - Cover screw holes using the protective covers supplied (3).
- or
- Fasten lower part of the Integro Box to the mirror cabinet floor using suitable screws (2).
 - Insert cables through the opening provided (4).
 - Push cover onto the lower part until it engages.
 - Fasten cover to the lower part using the screws supplied (5).

The Integro Box can also be screwed to the rear panel of the mirror cabinet in assembled state using the fastening points (6) provided. Suitable screws are available upon request.

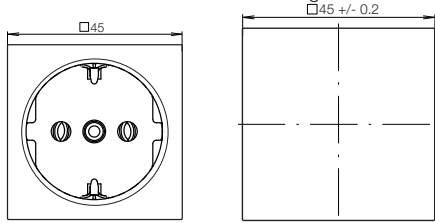
SYSTO

Module inserts

i The module inserts are snapped into place in the installation opening using the "SNAP-IN method" and can thus be installed without the need for tools.

**Built-in SCHUKO socket outlet
SNAP IN 4.6 mm, 1 module unit**

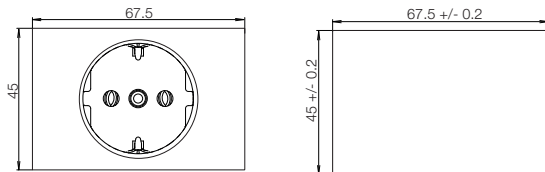
- for installation in cable trunkings



Installation aperture

**Built-in SCHUKO socket outlet
SNAP IN 4.6 mm, 1.5 module units**

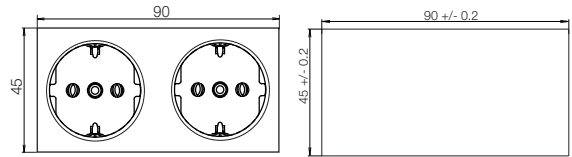
- for installation in cable trunkings



Installation aperture

**Built-in SCHUKO double socket outlet
SNAP IN 4.6mm, 2 module units**

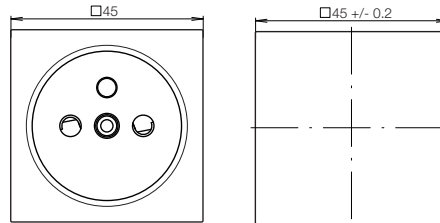
- for installation in cable trunkings



Installation aperture

**Built-in socket outlet with earthing contact
SNAP IN 4.6 mm, 1 module unit**

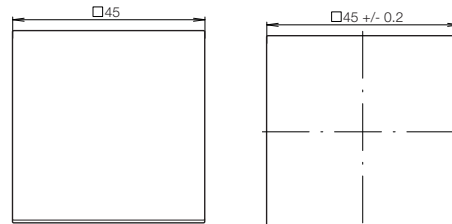
- for installation in cable trunkings



Installation aperture

**Built-in change-over switch
SNAP IN 4.6 mm**

- for installation in cable trunkings



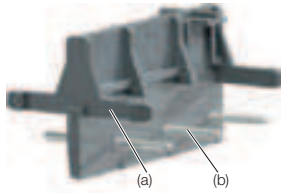
Installation aperture

Installation of several socket outlets via connection adapter

Several socket outlets have to be connected via a connection adapter (order no. WS120).

The connection adapter is used for quick installation for the following types:

- WS121, 121E, 121N, 121V
- WS122, 122E, 122N, 122V
- WS172, 172E, 172N, 172V



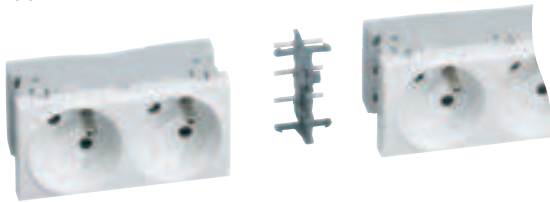
The connection adapter is inserted into the plug-in terminals of the socket outlet with its contact pins.

The connection bridges must snap into place.

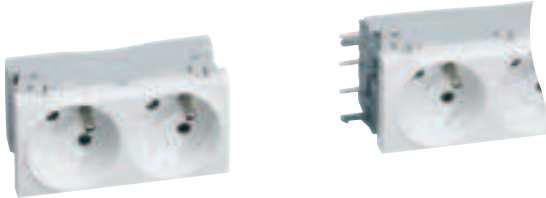
- (a) Connection bridge
- (b) Contact pin

Installation

Only in the first socket outlet module is the connection cable inserted into the plug-in terminals.



- Insert the connection adapter into the plug-in terminals of the socket outlet module in the correct position.
- i** Pay attention to correct polarity (labelling of the terminals).
- Insert connection adapter with socket outlet module into the plug-in terminals of the next socket outlet module in the correct position.



Dismantling

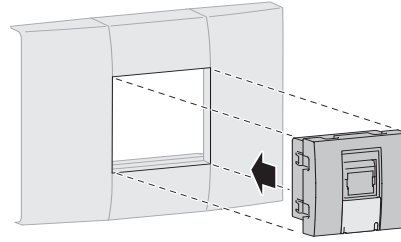
! Before dismantling, make sure that no voltage is present. Cover all live parts.

- To dismantle or separate the socket outlet modules, push in the connection bridges on both sides using a slot screwdriver.
- Pull socket outlet modules apart.



Installation in installation aperture

- Prepare the installation opening for the corresponding module.
- Connect module.
- Snap module into place in the installation opening (example: FCC module built-in data socket).

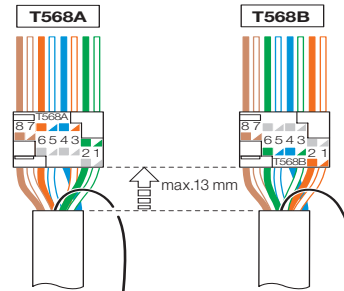


Data communication technology Connection technology

There are two types of connection variants in the data communication:

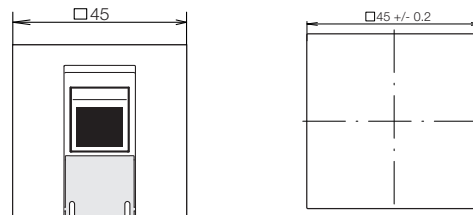
- T568 A
- T568 B

The difference between both variants lies in the assignment of the green/green-white and orange/orange white wire pair.



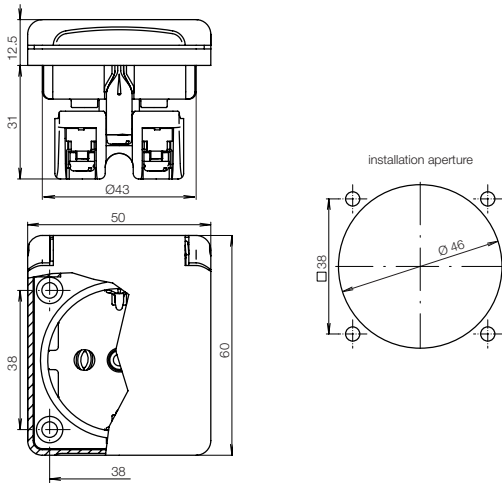
- i** The twisted pair wires (twisted pair) must not be drilled more than 13 mm, as otherwise the transmission properties will change. In the case of shielded cables, apply the shield.

FCC socket outlet 8pole shielded, cat.6 SNAP IN 4.6 mm

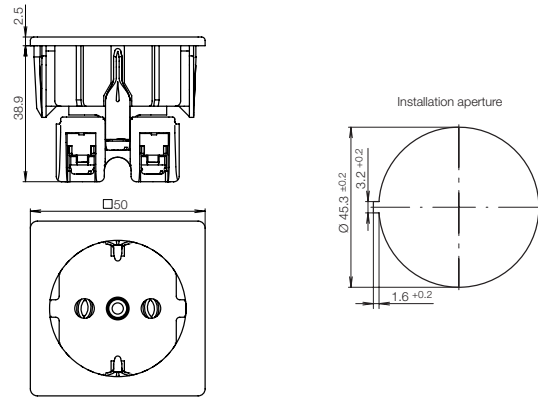


BUILT-IN SCHUKO SOCKET OUTLETS
BUILT-IN SOCKET OUTLETS

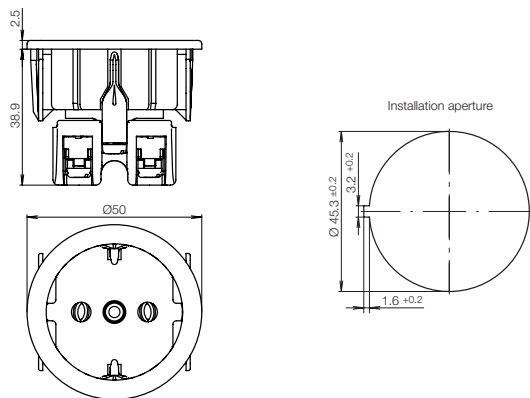
Built-in socket outlets
Built-in SCHUKO socket outlets
Built-in SCHUKO socket outlet with hinged cover 50 x 60 mm



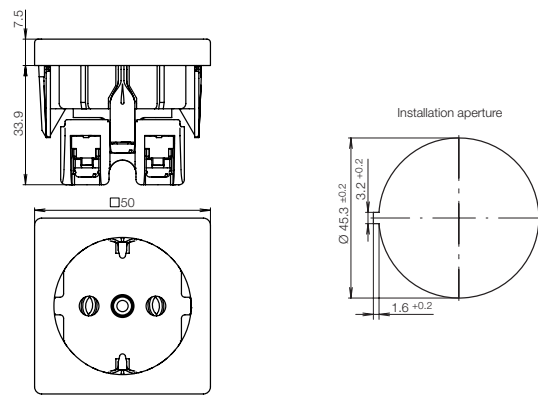
Built-in SCHUKO socket outlet with centre plate 50 x 50 mm, SNAP IN
 - for different installation wall thicknesses



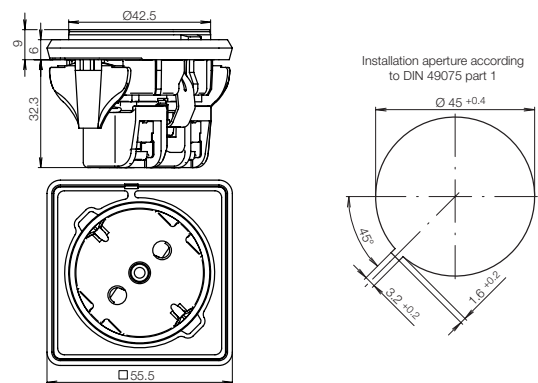
Built-in SCHUKO socket outlet with centre plate Ø 50 mm, SNAP IN
 - for different installation wall thicknesses



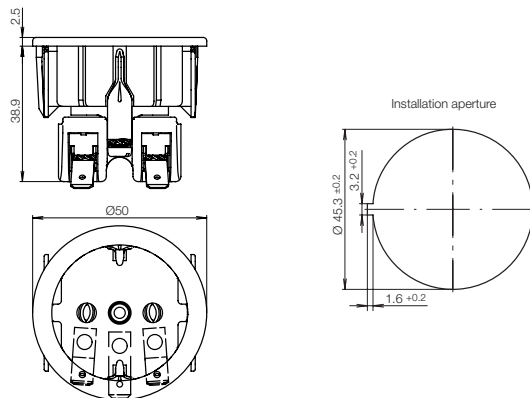
Built-in SCHUKO socket outlet with centre plate 50 x 50 mm, SNAP IN 0.6 - 1.5 mm
 - installation depth 33.9 mm



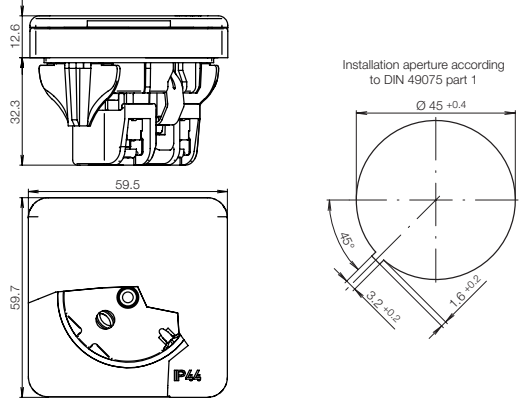
Built-in 45° SCHUKO socket outlet SNAP IN 1.3 - 2.2 mm



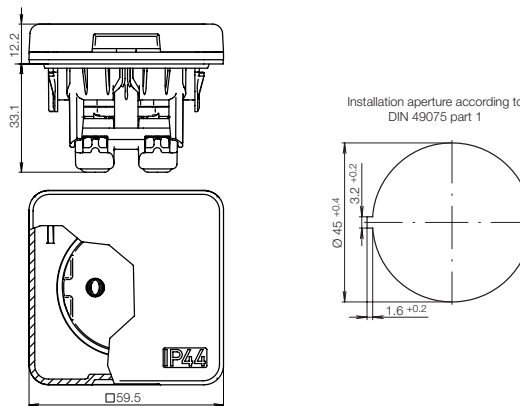
Built-in SCHUKO socket outlet with centre plate Ø 50 mm, SNAP IN 0.6 - 1.5 mm
 - with flat connection



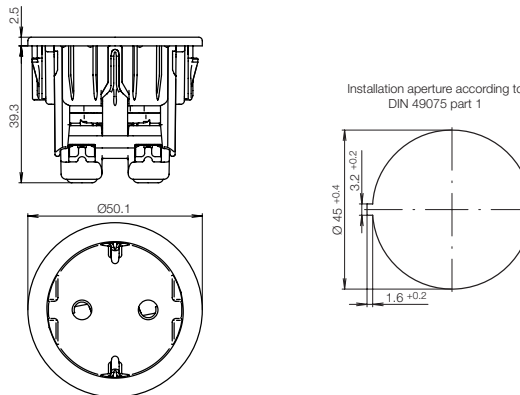
Built-in SCHUKO socket outlet 45° with hinged cover, SNAP IN 1.3 - 2.2 mm



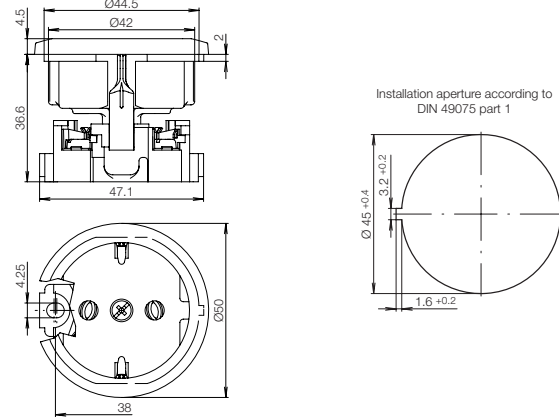
Built-in SCHUKO socket outlet with hinged cover 59.5 x 59.5 mm, SNAP IN, IP44
- for different built-in wall thicknesses



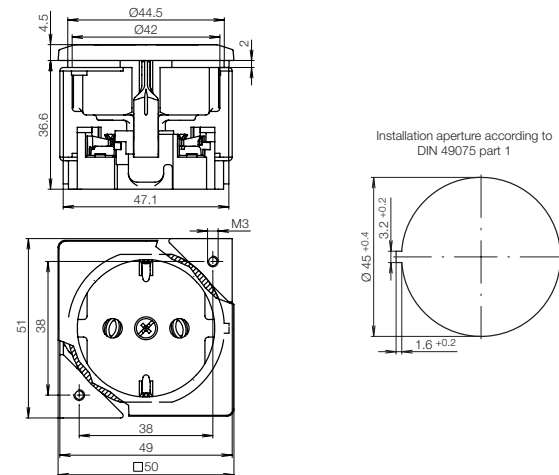
Built-in SCHUKO socket outlet with centre plate 50 x 50 mm, SNAP IN
- for different built-in wall thicknesses



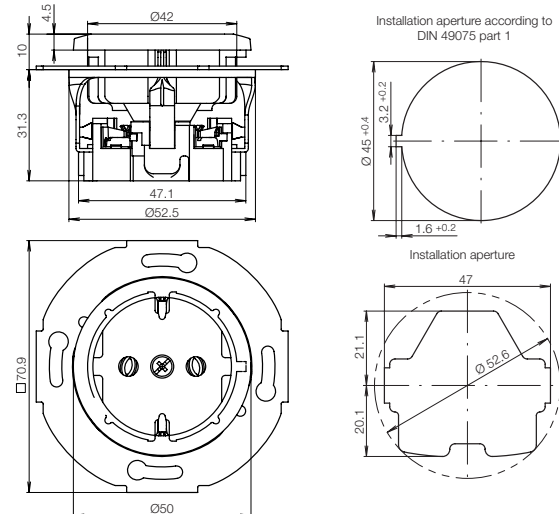
Built-in SCHUKO socket outlet with centre plate Ø 50 mm



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

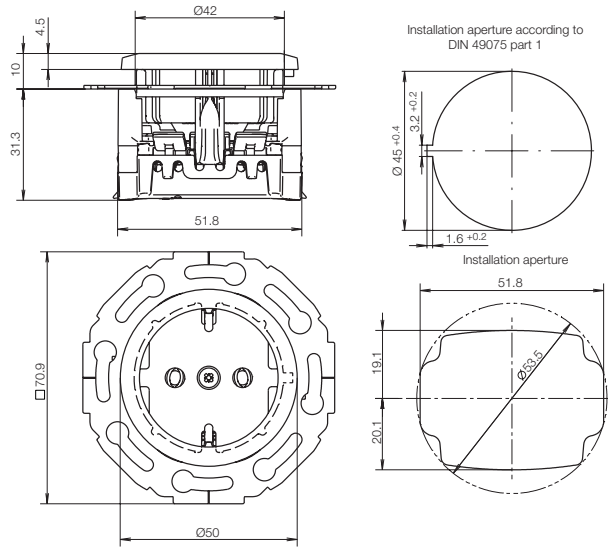


Built-in SCHUKO socket outlet with supporting ring, centre plate Ø 50 mm
- with screw terminals

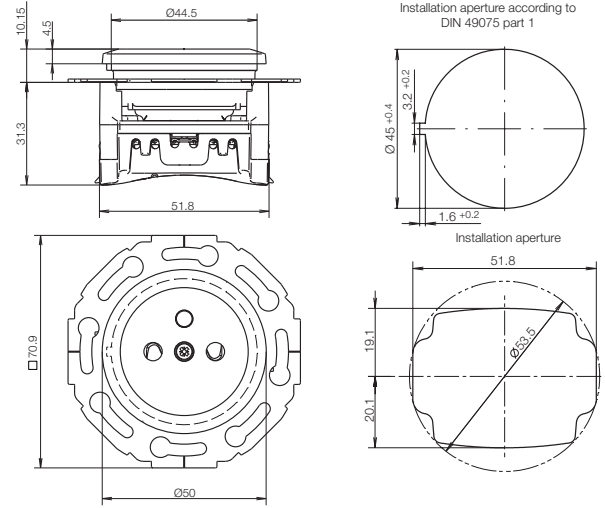


BUILT-IN SCHUKO SOCKET OUTLETS
BUILT-IN SOCKET OUTLETS WITHOUT EARTHING CONTACT

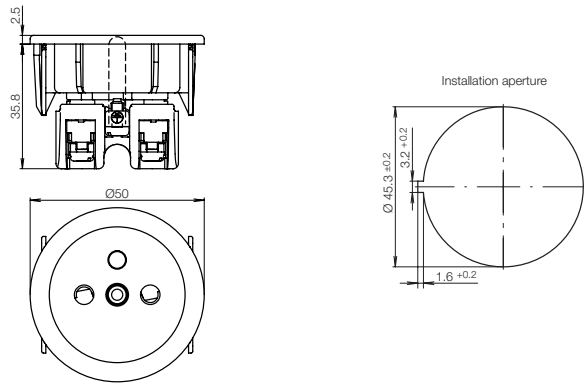
Built-in SCHUKO socket outlet with supporting ring, centre plate Ø 50 mm
 - with plug-on terminals



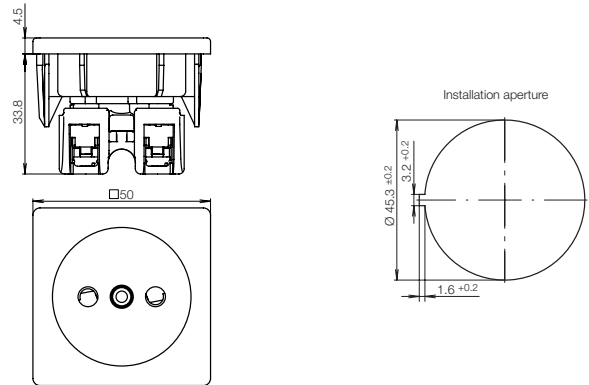
Built-in socket outlet with earthing pint and supporting ring, centre plate Ø 50 mm



Built-in socket outlets with earthing pin
Built-in socket outlet with earthing pin and centre plate Ø 50 mm, SNAP IN
 - for different built-in wall thicknesses



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



Built-in socket outlet with earthing pin and centre plate 50 x 50 mm, SNAP IN
 - for different built-in wall thicknesses

