

IEC Appliance Inlet C14 with Filter 2-Stages, Fuseholder 1- or 2-pole, Line Switch 2-pole



See below:
[Approvals and Compliances](#)

Description

- Panel mount :
 Snap-in or screw-on mounting front side
- 4 Functions :
 Appliance Inlet Protection class I , Line Switch 2-pole , Fuseholder for fuse-links 5 x 20 mm 1- or 2-pole , 2-Stages line filter in standard and medical version
- V-Lock notch standard
- Quick connect terminals 6.3 x 0.8 mm

Unique Selling Proposition

- Most compact power entry module with 2-stages filter
- Attractive flat design
- Various mounting options
- V-Lock cord retaining

Characteristics

- Ultra-compact design. Ideal for low profile designs
- Aluminum case provides good shielding
- All single elements are already wired
- Ideal for application with high transient loads
- Suitable for use in medical equipment according to IEC/UL 60601-1 (1 MOOP, 1 MOPP)
 For applications according IEC/UL 62368-1 we recommend variants with bleed resistor

Other versions on request

- Solder terminals
- Fuse drawer 1-pole, plus spare fuse case
- Fuse drawer 2-pole, with shorting bar
- Other rocker marking
- Line switch, illuminated
- Line switch 1-pole
- Medical Version (M80)
- Class X1- and Y1-capacitors for enhanced withstand voltage

References

Alternative: version without line filter [DD11](#)
 Alternative: version with 1-stage filter [DD12](#)

Weblinks

[pdf data sheet](#), [html datasheet](#), [General Product Information](#), [Approvals](#), [Distributor-Stock-Check](#), [Accessories](#), [Detailed request for product](#)

Technical Data

| | | | |
|---------------------------------|---|-----------------------------------|---|
| Ratings IEC | 1 - 10A @ Ta 40 °C / 250 VAC; 50 Hz | Appliance inlet/-outlet | C14 acc. to IEC 60320-1 |
| Ratings UL/CSA | 1 - 10A @ Ta 40 °C / 250 VAC; 60 Hz | Fuseholder | UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10A, Protection Class I |
| Leakage Current | standard < 0.5 mA (250 V / 60 Hz) medical < 5 µA (250 V / 60 Hz) | Rated Power Acceptance @ Ta 23 °C | 5 x 20: 2 W (1 pole)/ 1.6 W (2-pole) per pole |
| Dielectric Strength | > 1.7 kVDC between L-N > 2.7 kVDC between L/N-PE Test voltage (2 sec) | Power Acceptance @ Ta > 23°C | Admissible power acceptance at higher ambient temperature see derating curves |
| Allowable Operation Temperature | -25 °C to 85 °C | Line Switch | Rocker switch 2-pole, non-illuminated, acc. to IEC 61058-1 Technical Details |
| Climatic Category | 25/085/21 acc. to IEC 60068-1 | Line Filter | Standard and Medical Version, IEC 60939, UL 60939-3, CSA C22.2 no. 8 Technical Details |
| IP-Protection | front side IP40 acc. to IEC 60529 | MTBF | > 2'000'000 h acc. to MIL-HB-217 F |
| Protection Class | Suitable for appliances with protection class I acc. to IEC 61140 | | |
| Terminal | Quick connect terminals 6.3 x 0.8 mm | | |
| Panel Thickness S | Screw-on mounting: max 8 mm Mounting screw torque max 0.5 Nm Snap-in version: 1 mm - 3 mm | | |
| Material | Thermoplastic, black, UL 94V-0 | | |

Approvals and Compliances



Detailed information on product approvals, code requirements, usage instructions and detailed test conditions can be looked up in [Details about Approvals](#)

SCHURTER products are designed for use in industrial environments. They have approvals from independent testing bodies according to national and international standards. Products with specific characteristics and requirements such as required in the automotive sector according to IATF 16949, medical technology according to ISO 13485 or in the aerospace industry can be offered exclusively with customer-specific, individual agreements by SCHURTER.

Approvals









The approval mark is used by the testing authorities to certify compliance with the safety requirements placed on electronic products.

Approval Reference Type: DD14

| Approval Logo | Certificates | Certification Body | Description |
|--|-------------------------------|--------------------|------------------------------|
|  | VDE Approvals | VDE | Certificate Number: 40001522 |
|  | UL Approvals | UL | UR File Number: E495089 |




Product standards

Product standards that are referenced

| Organization | Design | Standard | Description |
|--|-----------------------|------------------|---|
|  | Designed according to | IEC 60320-1 | Appliance couplers for household and similar general purposes |
|  | Designed according to | IEC 60939 | Passive filters for suppressing electromagnetic interference |
|  | Designed according to | IEC 60127-6 | Miniature fuses. Part 6. Fuse-holders for miniature fuse-links |
|  | Designed according to | IEC 61058-1 | Switches for appliances. Part 1. General requirements |
|  | Designed according to | UL 498 | Standard for Attachment Plugs and Receptacles |
|  | Designed according to | UL 60939-3 | Passive filters for suppressing electromagnetic interference |
|  | Designed according to | CSA C22.2 no. 42 | General Use Receptacles, Attachment Plugs, and Similar Wiring Devices |
|  | Designed according to | CSA C22.2 no. 8 | Electromagnetic interference (EMI) filters |







Application standards

Application standards where the product can be used

| Organization | Design | Standard | Description |
|--|--------------------------------|----------------|--|
|  | Suitable for applications acc. | IEC/UL 62368-1 | Audio/video, information and communication technology equipment - Part 1: Safety requirements |
|  | Suitable for applications acc. | IEC 60601-1 | Medical electrical equipment - Part 1: General requirements for basic safety and essential performance |
|  | Suitable for applications acc. | IEC 60335-1 | Safety of electrical appliances for household and similar purposes. Meets the requirements for appliances in unattended use. This includes the enhanced requirements of glow wire tests acc. to IEC 60695-2-11 or -12 & -13. |

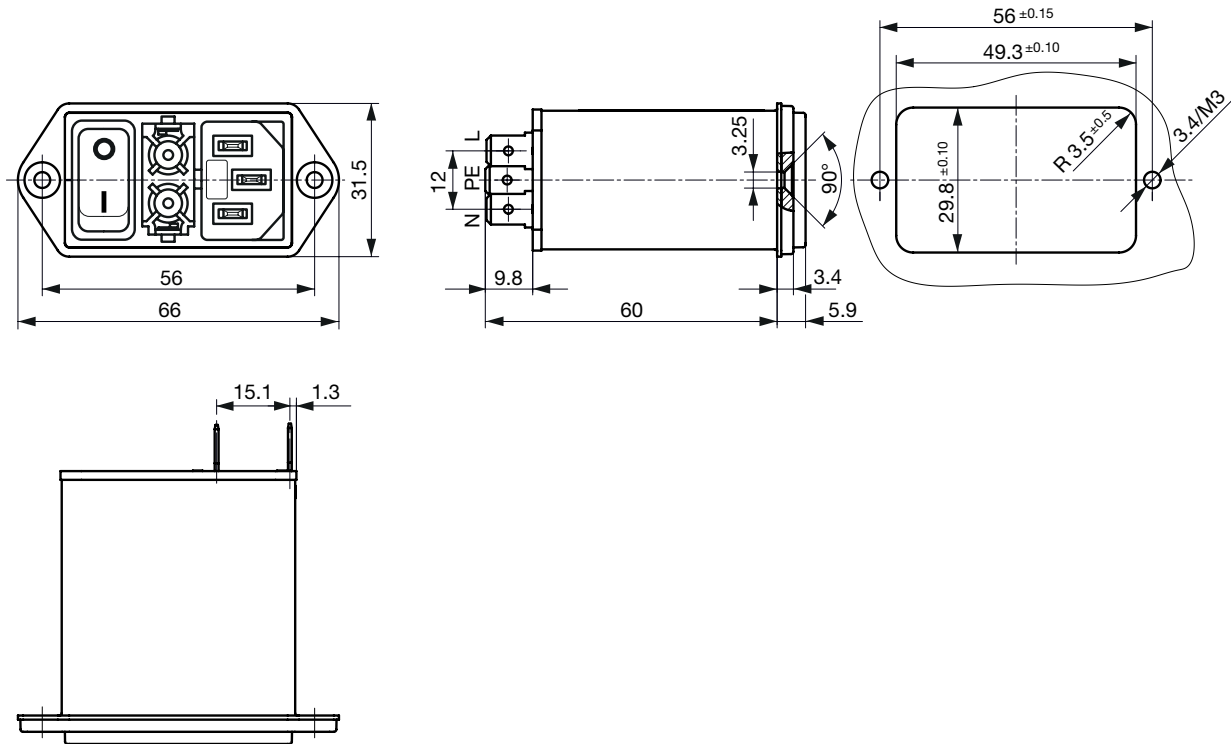
Compliances

The product complies with following Guide Lines

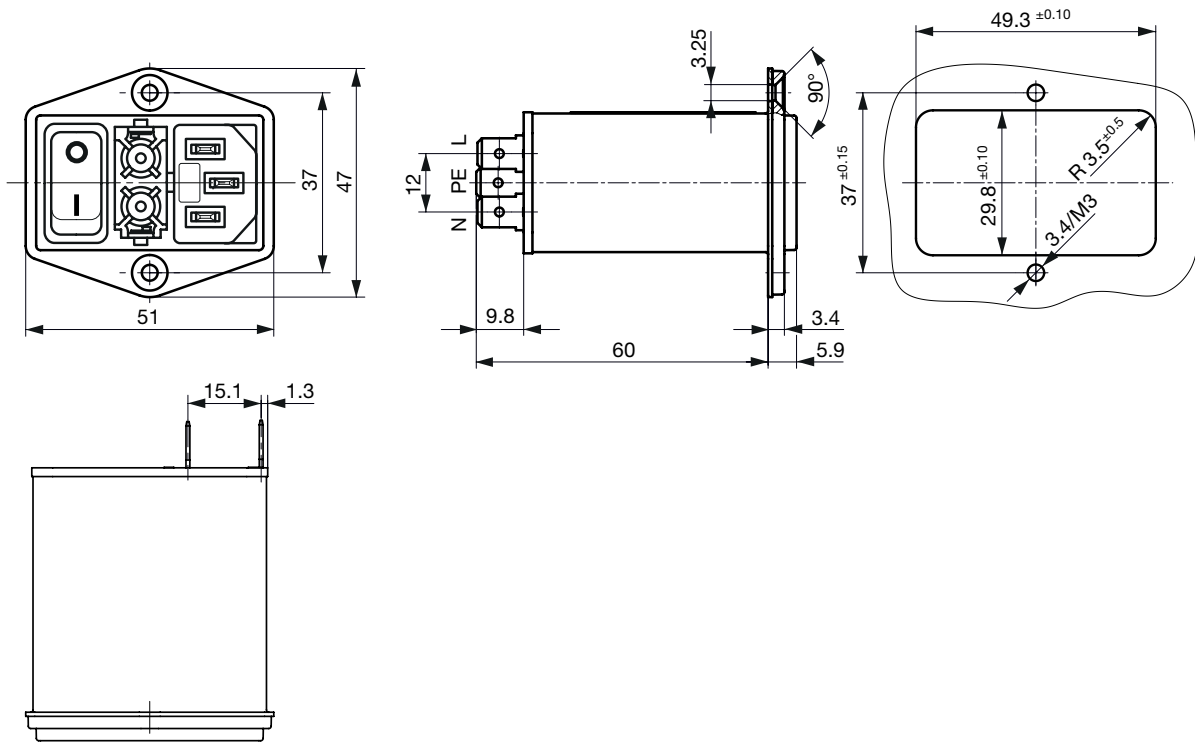
| Identification | Details | Initiator | Description |
|---|----------------------------|-------------|--|
|  | RoHS | SCHURTER AG | Directive RoHS 2011/65/EU, Amendment (EU) 2015/863 |
|  | China RoHS | SCHURTER AG | The law SJ / T 11363-2006 (China RoHS) has been in force since 1 March 2007. It is similar to the EU directive RoHS. |
|  | REACH | SCHURTER AG | On 1 June 2007, Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals 1 (abbreviated as "REACH") entered into force. |
|  | | SCHURTER AG | V-Lock system are based on a matching plug-dose combination. The connector is equipped with a notch intended for use with the latching cordset. The cord latching system prevents against accidental removal of the cordset. |
|  | White Paper Glow wire test | SCHURTER AG | Meets the requirements of IEC 60335-1 for appliances in unattended use. This includes the enhanced requirements of glow wire tests acc. to IEC 60695-2-11 or -12 &-13. |
|  | Medical Equipment | SCHURTER AG | Suitable for use in medical equipment according to IEC/UL 60601-1 (1 MOOP, 1 MOPP) |

Dimension [mm]

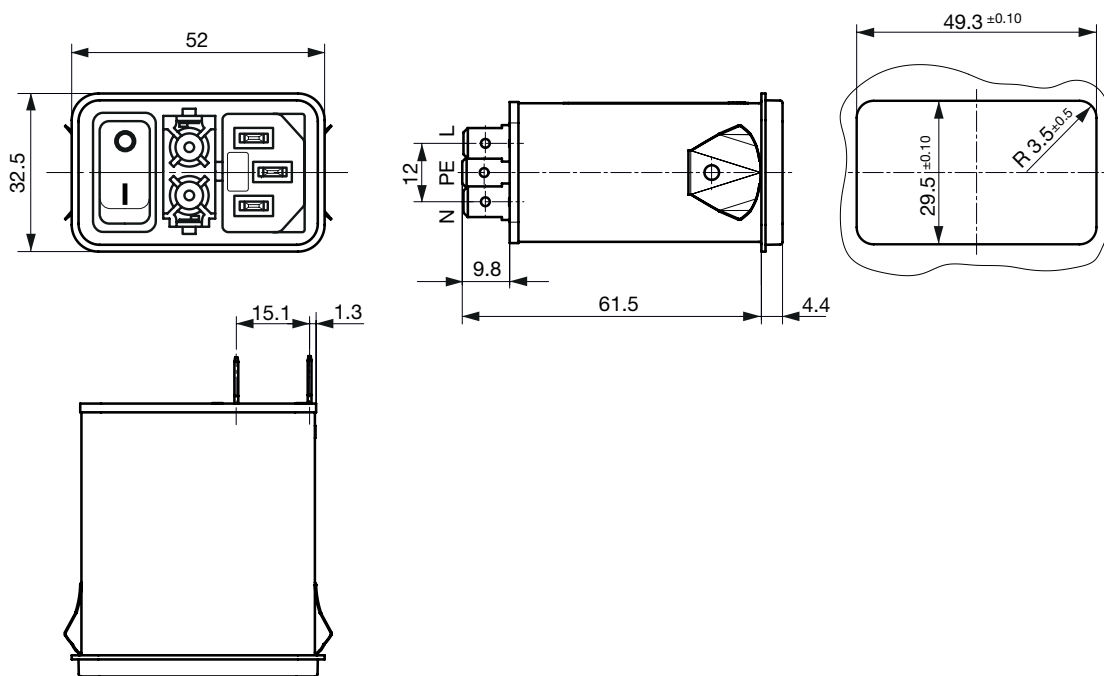
Screw version A



Screw version B



Snap-in mounting from front side



Technical Data of Filter-Components

| Rated Current [A] | Filter-Type | Inductances L [mH] | Capacitance CX [nF] | Capacity Cy1 [nF] | Capacity Cy2 [nF] | R [MΩ] |
|-------------------|----------------------|--------------------|---------------------|-------------------|-------------------|--------|
| 1 | Standard version | 2 x 10 | 220 | 1.5 | 1 | 1 |
| 2 | Standard version | 2 x 4 | 220 | 1.5 | 1 | 1 |
| 4 | Standard version | 2 x 1.5 | 220 | 1.5 | 1 | 1 |
| 6 | Standard version | 2 x 0.8 | 220 | 1.5 | 1 | 1 |
| 8 | Standard version | 2 x 0.6 | 220 | 1.5 | 1 | 1 |
| 10 | Standard version | 2 x 0.3 | 220 | 1.5 | 1 | 1 |
| 1 | Medical Version (M5) | 2 x 10 | 220 | - | - | 1 |
| 2 | Medical Version (M5) | 2 x 4 | 220 | - | - | 1 |
| 4 | Medical Version (M5) | 2 x 1.5 | 220 | - | - | 1 |
| 6 | Medical Version (M5) | 2 x 0.8 | 220 | - | - | 1 |
| 8 | Medical Version (M5) | 2 x 0.3 | 220 | - | - | 1 |
| 10 | Medical Version (M5) | 2 x 0.3 | 220 | - | - | 1 |

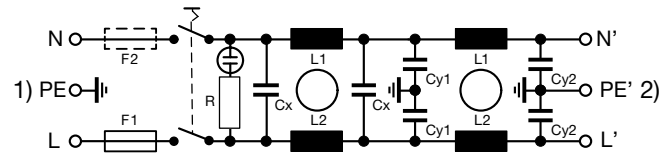
Diagrams

Standard version



- 1) Line
- 2) Load

Standard version



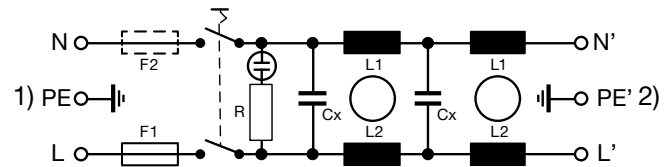
- 1) Line
- 2) Load

Medical Version (M5)



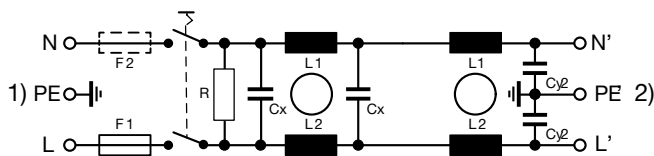
- 1) Line
- 2) Load

Medical Version (M5)



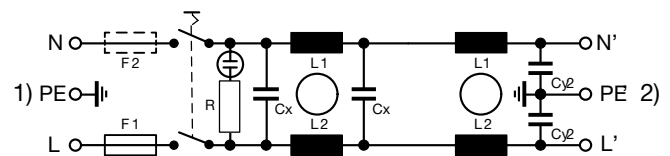
- 1) Line
- 2) Load

Medical Version (M80)



- 1) Line
- 2) Load

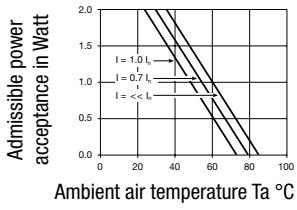
Medical Version (M80)



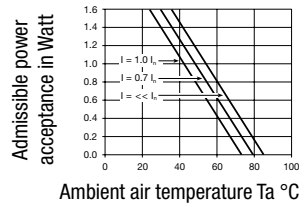
- 1) Line
- 2) Load

Derating Curves

1-pole



2-pole

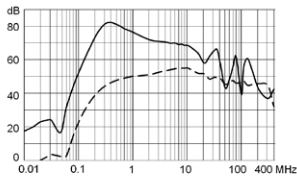


Attenuation Loss

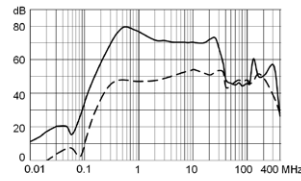
--- 50Ω differential mode ____ 50Ω common mode

Standard version

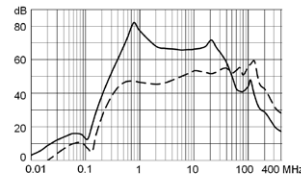
1 A



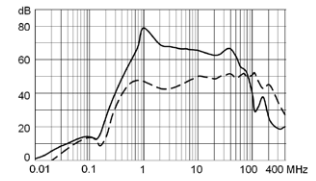
2 A



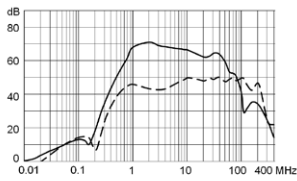
4 A



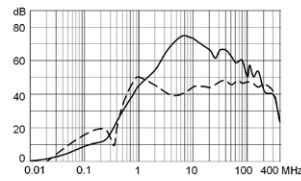
6 A



8 A

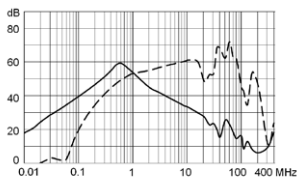


10 A

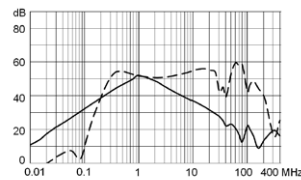


Medical version (M5)

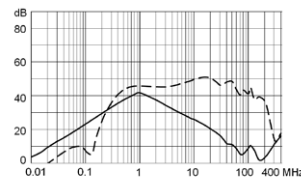
1 A



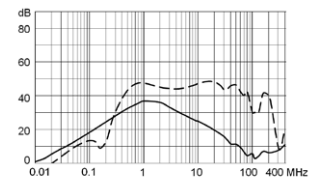
2 A



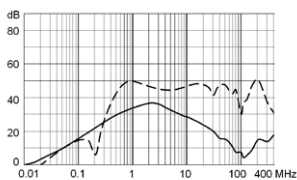
4 A



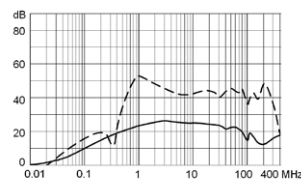
6 A



8 A

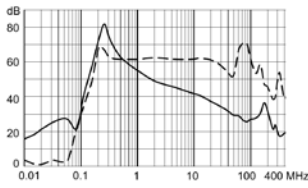


10 A

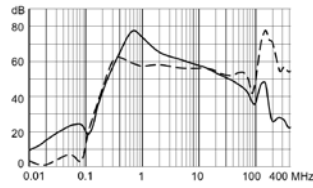


Medical version (M80)

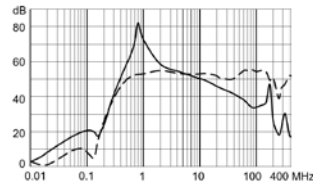
1 A



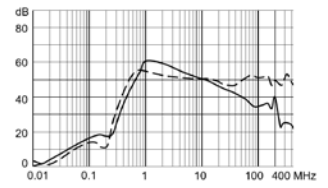
2 A



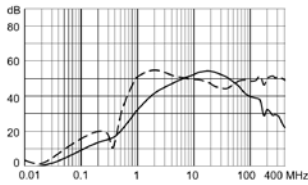
4 A



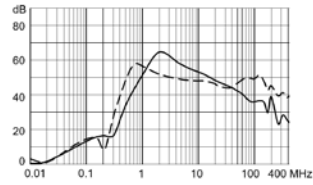
6 A



8 A



10 A



All Variants

| Rated Current [A] | Filter-Type | Mounting | Fuseholder | Line Switch | Illumination | Color | Order Number |
|-------------------|----------------------|------------|------------|-------------|-------------------|-------|--------------|
| 1 | Standard version | Screw-on A | 2-pole | 2-pole | non-illuminated | black | 3-103-776 |
| 2 | Standard version | Screw-on A | 2-pole | 2-pole | non-illuminated | black | 3-103-777 |
| 2 | Standard version | Screw-on B | 2-pole | 2-pole | illuminated green | black | 3-122-567 |
| 4 | Standard version | Screw-on A | 2-pole | 2-pole | non-illuminated | black | 3-103-778 |
| 4 | Standard version | Screw-on A | 2-pole | 2-pole | illuminated green | black | 3-131-393 |
| 6 | Standard version | Screw-on A | 2-pole | 2-pole | non-illuminated | black | 3-102-850 |
| 6 | Standard version | Screw-on B | 2-pole | 2-pole | non-illuminated | black | 3-102-852 |
| 6 | Standard version | Snap-in | 2-pole | 2-pole | non-illuminated | black | 3-102-854 |
| 8 | Standard version | Screw-on A | 2-pole | 2-pole | non-illuminated | black | 3-103-779 |
| 10 | Standard version | Screw-on A | 2-pole | 2-pole | non-illuminated | black | 3-103-780 |
| 10 | Standard version | Snap-in | 2-pole | 2-pole | non-illuminated | black | 3-103-789 |
| 10 | Standard version | Screw-on B | 2-pole | 2-pole | non-illuminated | black | 3-105-326 |
| 1 | Medical Version (M5) | Screw-on A | 2-pole | 2-pole | non-illuminated | black | 3-104-202 |
| 2 | Medical Version (M5) | Screw-on A | 2-pole | 2-pole | non-illuminated | black | 3-104-203 |
| 4 | Medical Version (M5) | Screw-on A | 2-pole | 2-pole | non-illuminated | black | 3-104-204 |
| 6 | Medical Version (M5) | Screw-on A | 2-pole | 2-pole | non-illuminated | black | 3-104-205 |
| 8 | Medical Version (M5) | Screw-on A | 2-pole | 2-pole | non-illuminated | black | 3-104-206 |
| 8 | Medical Version (M5) | Screw-on A | 2-pole | 2-pole | illuminated green | black | 3-115-078 |
| 10 | Medical Version (M5) | Screw-on A | 2-pole | 2-pole | non-illuminated | black | 3-104-207 |
| 10 | Medical Version (M5) | Screw-on A | 2-pole | 2-pole | illuminated green | black | 3-138-585 |

Most Popular.

Availability for all products can be searched real-time: <https://www.schurter.com/en/info-center/support-tools/stock-check-distributors>

10 A version only IEC approval.

The fuse drawer is not included and must be ordered separately (see required accessory).

Packaging unit

10 Pcs

Required Accessory

Description



[Fusedrawer_2](#)
 Fusedrawer for Fuse Links 5x20 mm, with or without Voltage Selector Insert

Accessories



[Wire_Harness](#)
 Wire harness for SCHURTER products



[Assorted_Covers](#)
 Rear Cover



[RC320](#)
 Rear Cover for Power Entry Module

Mating Outlets/Connectors

Category / Description

[Appliance Outlet Overview complete](#)



| | |
|--|------|
| 4787, Mounting: Screw-on mounting, Appliance Outlet: IEC Solder terminals, 10 A, Suitable for appliances with protection class I | 4787 |
| 4788, Mounting: Snap-in version, Appliance Outlet: IEC Solder / Quick Connect, 10 A, Suitable for appliances with protection class I | 4788 |
| IEC Appliance Outlet F or H, Screw-on Mounting, Front Side, Solder, PCB or Quick-connect Terminal | 5091 |

[Connector Overview complete](#)



| | |
|---|---------|
| 4782 Mounting: Power Cord, 3 x 1 mm ² / 3 x 18 AWG, Cable, Connector: IEC C13 | 4782 |
| 4785 Mounting: Power Cord, 3 x 1 mm ² / 3 x 18 AWG, Cable, Connector: IEC C13 | 4785 |
| 4300-06 Mounting: Power Cord, 3 x 1 mm ² / 3 x 18 AWG, Cable, Connector: IEC C13 | 4300-06 |
| 4781 Mounting: Power Cord, Cable, Connector: IEC C15 | 4781 |
| 4784 Mounting: Power Cord, 3 x 1 mm ² / 3 x 18 AWG, Cable, Connector: IEC C15 | 4784 |

Mating Outlets/Connectors shuttered



[Connector Overview complete](#)

4783 Mounting: Power Cord, 3 x 1 mm² / 3 x 18 AWG, Cable, Connector: IEC C13

4783



[Power Cord Overview complete](#)

VAC13KS, Overview, V-Lock cord retaining, diverse Connector IEC C13, diverse, black

VAC13KS