IEC Appliance Inlet C14 with Filter, "Lock and Shield" Mounting



GRF4: with shield and line filter



Description

- Panel mount : Snap-in version rear-side

2 Eurotiona

- 3 Functions : Appliance Inlet Protect

Appliance Inlet Protection class ${\sf I}$, with EMC-shield , Line filter in standard and medical version

See below: Approvals and Compliances

Characteristics

- Time saving "Lock and Shield" snap-in design for rear-panel mounting
- All single elements are already wired
- Innovative EMC-shielding with flexible steel segments for an excellent contact to the panel
- 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

- Panel thickness 1.2 mm and 2.0 mm

References

Alternative: version without line filter GRF2 Alternative: Standard version

Weblinks

pdf data sheet, html datasheet, General Product Information, Approvals, Distributor-Stock-Check, Accessories, Detailed request for product

Technical Data

| lechnical Data | | | |
|----------------------------|---|-------------------------|---|
| Ratings IEC | 0.5 - 10A @ Ta 40 °C / 250 VAC; 50 Hz | Appliance inlet/-outlet | C14 acc. to IEC 60320-1, |
| Ratings UL/CSA | 0.5 - 15A @ Ta 40 °C / 250 VAC; 60 Hz | | UL 60320-1, CSA C22.2 no. 60320-1 |
| Leakage Current | standard < 0.5 mA (250 V / 60 Hz) medical < 5 µA (250 V / 60 Hz) | | (for cold conditions) pin-temperature 70 °C, 10A, Protection Class I |
| Dielectric Strength | > 1.7 kVDC between L-N > 2.7 kVDC between L/N-PE Test voltage (2 sec) | Line Filter | Standard and Medical Version, IEC 60939, UL 1283, CSA C22.2 no. 8 Technical Details |
| Allowable Operation Tempe- | -25 °C to 85 °C | MTBF | > 3'300'000 h acc. to MIL-HB-217 F |
| rature | | | |
| Climatic Category | 25/085/21 acc. to IEC 60068-1 | | |
| IP-Protection | front side IP40 acc. to IEC 60529 | | |
| Protection Class | Suitable for appliances with protection class I acc. to IEC 61140 | | |
| Terminal | Quick connect terminals 4.8 x 0.8 mm | | |
| Panel Thickness S | Screw | | |
| | Mounting screw torque max 0.5 Nm | | |
| | Snap-in: 1.5 mm | | |
| | (other on request) | | |
| Material: Housing | 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.

GRF4

Approvals

The approval mark is used by the testing authorities to certify compliance with the safety requirements placed on electronic products. Approval Reference Type: GRF4

| Approval Logo | Certificates | Certification Body | Description |
|----------------|---------------|--------------------|--------------------------------|
| | VDE Approvals | VDE | VDE Certificate Number: 102348 |
| c RL us | UL Approvals | UL | UL File Number: E72928 |

Product standards

Product standards that are referenced

| Organization | Design | Standard | Description |
|-----------------|-----------------------|-----------------------|---|
| IEC | Designed according to | IEC 60320-1 | Appliance couplers for household and similar general purposes |
| IEC | Designed according to | IEC 60939 | Passive filters for suppressing electromagnetic interference |
| IEC | Designed according to | IEC 61058-1 | Switches for appliances. Part 1. General requirements |
| (YL) | Designed according to | UL 60320-1 | Standard for Attachment Plugs and Receptacles |
| (YL) | Designed according to | UL 1283 | Electromagnetic interference filters |
| GE CSA Group | Designed according to | CSA C22.2 no. 60320-1 | General Use Receptacles, Attachment Plugs, and Similar Wiring Devices |
| CSA Group | Designed according to | CSA C22.2 no. 8 | Electromagnetic interference (EMI) filters |
| | | | |

Application standards

Application standards where the product can be used

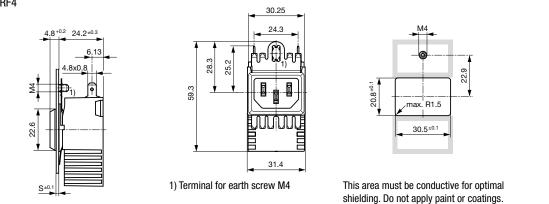
| Organization | Design | Standard | Description |
|--------------|--------------------------------|----------------|---|
| IEC. | Designed for applications acc. | IEC/UL 62368-1 | Audio/video, information and communication technology equipment - Part 1: Safety requirements |
| IEC. | Designed for applications acc. | IEC 60601-1 | Medical electrical equipment - Part 1: General requirements for basic safety and essential performance |

Compliances

The product complies with following Guide Lines

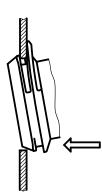
| IdentificationDetailsInitiatorDescriptionC €CE declaration of conformitySCHURTER AGThe CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008.UKCA declaration of conformitySCHURTER AGThe UKCA marking declares that the product complies with the applicable requirements laid down in the British Amendment of Regulation (EC) 765/2008.UKCARoHSSCHURTER AGDirective RoHS 2011/65/EU, Amendment (EU) 2015/863Image: C hina RoHSSCHURTER AGDirective RoHS 2011/65/EU, Amendment (EU) 2015/863Image: C hina RoHSSCHURTER AGDirective RoHS 2011/65/EU, Amendment (EU) 2015/863Image: C hina RoHSSCHURTER AGDirective RoHS 2011/65/EU, Amendment (EU) 2015/863Image: C hina RoHSSCHURTER AGDirective RoHS 2007. It is similar to the EU directive RoHS.Image: C hina RoHSSCHURTER AGDirective RoHS.Image: C hina RoHSSCHURTER | The product comple | | | The product complete with hollowing durate Lines | | | | | |
|--|--------------------|--------------------------------|-------------|--|--|--|--|--|--|
| C C requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008. UKA UKCA declaration of conformity SCHURTER AG The UKCA marking declares that the product complies with the applicable requirements laid down in the British Amendment of Regulation (EC) 765/2008. Image: SCHURTER AG Directive RoHS 2011/65/EU, Amendment (EU) 2015/863 Image: SCHURTER AG Directive RoHS 2011/65/EU, Amendment (EU) 2015/863 Image: 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. Image: 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. Image: Medical Equipment SCHURTER AG Suitable for use in medical equipment according to IEC/UL 60601-1 (1 | Identification | Details | Initiator | Description | | | | | |
| RoHS SCHURTER AG Directive RoHS 2011/65/EU, Amendment (EU) 2015/863 Image: China RoHS SCHURTER AG Directive RoHS 2011/65/EU, Amendment (EU) 2015/863 Image: 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 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. Image: The Im | CE | CE declaration of conformity | SCHURTER AG | requirements laid down in the harmonisation of Community legislation on | | | | | |
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| 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. Medical Equipment SCHURTER AG Suitable for use in medical equipment according to IEC/UL 60601-1 (1 | | RoHS | SCHURTER AG | Directive RoHS 2011/65/EU, Amendment (EU) 2015/863 | | | | | |
| REACH Evaluation, Authorization and Restriction of Chemicals 1 (abbreviated as "REACH") entered into force. Medical Equipment SCHURTER AG Suitable for use in medical equipment according to IEC/UL 60601-1 (1 | (C) | China RoHS | SCHURTER AG | | | | | | |
| | REACH | REACH | SCHURTER AG | Evaluation, Authorization and Restriction of Chemicals 1 (abbreviated as | | | | | |
| | | Medical Equipment | SCHURTER AG | | | | | | |

Dimension [mm] GRF4

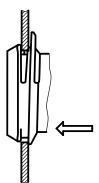


Assembly Instructions

Step 1



Place the socket in top edge of the panel cut-out. Step 3



Push the socket forward into the panel cut-out.

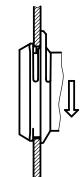
Technical Data of Filter-Components

| Rated Current [A] | Filter-Type | Inductances L [mH] | Capacitance CX [nF] | Capacitance CY [nF] | R [M Ω] |
|----------------------|----------------------|-----------------------|------------------------|------------------------|----------------|
| 0.5 | Standard version | 2 x 24 | 100 | 2.2 | - |
| 1 | Standard version | 2 x 12 | 100 | 2.2 | - |
| 3 | Standard version | 2 x 2.5 | 100 | 2.2 | - |
| 6 | Standard version | 2 x 0.78 | 100 | 2.2 | - |
| 10 | Standard version | 2 x 0.225 | 100 | 2.2 | - |
| 15 | Standard version | 2 x 0.1 | 100 | 2.2 | - |
| 0.5 | Medical Version (M5) | 2 x 24 | 100 | - | 1 |
| 1 | Medical Version (M5) | 2 x 12 | 100 | - | 1 |
| 3 | Medical Version (M5) | 2 x 2.5 | 100 | - | 1 |
| 6 | Medical Version (M5) | 2 x 0.78 | 100 | - | 1 |
| 10 | Medical Version (M5) | 2 x 0.225 | 100 | - | 1 |
| 15 | Medical Version (M5) | 2 x 0.1 | 100 | - | 1 |

Step 2



Push the socket upwards. Step 4

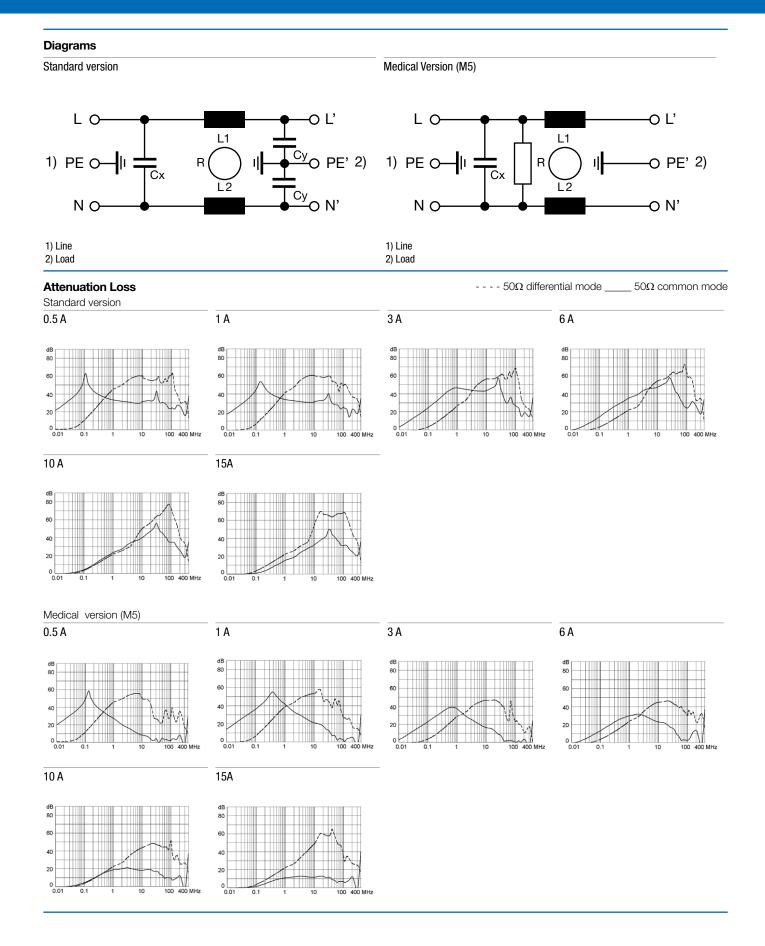


Release the socket. The component is self adjusting.



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GRF4



All Variants

| Rated Current IEC [A] | Rated Current UL [A] | Filter-Type | Panel Thickness s [mm] | Packaging unit | Order Number |
|--------------------------|-------------------------|----------------------|---------------------------|----------------|-----------------|
| 0.5 | 0.5 | Standard version | 1 | 20 | GRF4.0411.011.C |
| 1 | 1 | Standard version | 1 | 20 | GRF4.0412.011.C |
| 6 | 6 | Standard version | 1 | 20 | GRF4.0416.011.C |
| 10 | 10 | Standard version | 1 | 20 | GRF4.0417.011.C |
| 0.5 | 0.5 | Standard version | 1.5 | 20 | GRF4.0411.013.C |
| 1 | 1 | Standard version | 1.5 | 20 | GRF4.0412.013.C |
| 3 | 3 | Standard version | 1.5 | 20 | GRF4.0413.013.C |
| 6 | 6 | Standard version | 1.5 | 20 | GRF4.0416.013.C |
| 10 | 10 | Standard version | 1.5 | 20 | GRF4.0417.013.C |
| 15 | 15 | Standard version | 1.5 | 20 | GRF4.0419.013.C |
| 3 | 3 | Standard version | 2 | 20 | GRF4.0413.014.C |
| 0.5 | 0.5 | Medical Version (M5) | 1.5 | 20 | GRF4.0021.013.C |
| 1 | 1 | Medical Version (M5) | 1.5 | 20 | GRF4.0022.013.C |
| 3 | 3 | Medical Version (M5) | 1.5 | 20 | GRF4.0023.013.C |
| 6 | 6 | Medical Version (M5) | 1.5 | 20 | GRF4.0026.013.C |
| 10 | 10 | Medical Version (M5) | 1.5 | 20 | GRF4.0027.013.C |
| 15 | 15 | Medical Version (M5) | 1.5 | 20 | GRF4.0029.013.C |

Most Popular.

Availability for all products can be searched real-time:https://www.schurter.com/en/Stock-Check/Stock-Check-SCHURTER

| Packaging unit | 20 Pcs |
|----------------|--------|
|----------------|--------|

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 pro- tection 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 |
| | |

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