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

GRF2: only with shield, without line filter

C14

70° C

See below:
Approvals and Compliances

Description
- Panel mount :
  Snap-in version rear-side
- 2 Functions :
  Appliance Inlet Protection class I , with EMC-shield

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
- For applications according IEC/UL 62368-1 we recommend variants with bleed resistor

Other versions on request
- With solder terminals

References
Alternative: version with line filter

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

Technical Data

Ratings IEC	10 A @ Ta 40 °C / 250 VAC; 50 Hz		Appliance inlet/-outlet	C14 acc. to IEC 60320-1, UL 60320-1, CSA C22.2 no. 60320-1 (for cold conditions) pin-temperature 70 °C, 10 A, Protection Class I
Ratings UL/CSA	15 A @ Ta 40 °C / 250 VAC; 60 Hz			
Dielectric Strength	> 1.7 kVDC between L-N > 2.7 kVDC between L/N-PE Test voltage (2 sec)		MTBF	> 3'300'000 h acc. to MIL-HB-217 F
Allowable Operation Temperature	-25 °C to 85 °C			
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 Plug Connector Solder terminal on request			
Panel Thickness S	Snap-in: 1.2/1.5/2 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: GRF2

Approval Logo	Certificates	Certification Body	Description
	VDE Approvals	VDE	VDE Certificate Number: 40025743
	UL Approvals	UL	UR File Number: E96454
	CCC Approvals	CCC	CCC Certificate Number: 2019180204010440

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
UL	Designed according to	UL 60320-1	Standard for Attachment Plugs and Receptacles
UL	Designed according to	UL 1283	Passive filters for suppressing electromagnetic interference
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

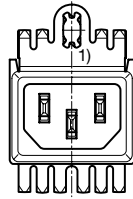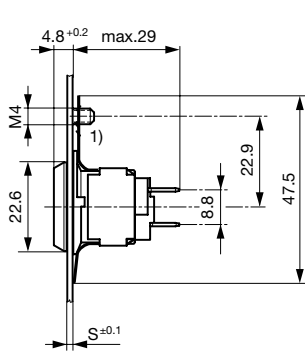| Organization	Design	Standard	Description
IEC	Suitable for applications acc.	IEC/UL 62368-1	Audio/video, information and communication technology equipment - Part 1: Safety requirements

Compliances

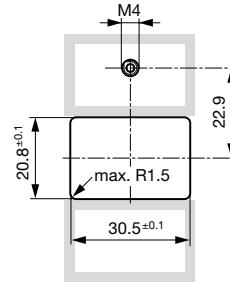The product complies with following Guide Lines

Identification	Details	Initiator	Description
CE	CE declaration of conformity	SCHURTER AG	The 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	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.
RoHS	RoHS	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863
China RoHS	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.

Dimension [mm]
GRF2

4.8 +0.2   max.29

M4

22.9

22.6   8.8   47.5

S ±0.1

1) Terminal for earth screw M4
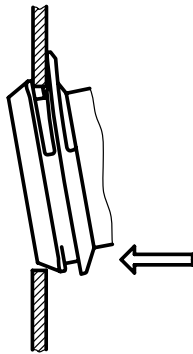
1) Terminal for earth screw M4

M4

20.8 ±0.1   22.9

max. R1.5

30.5 ±0.1

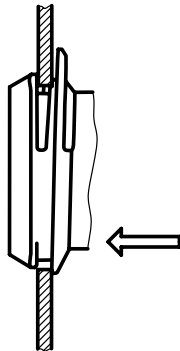This area must be conductive for optimal shielding. Do not apply paint or coatings.
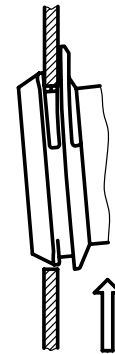
Assembly Instructions

Step 1

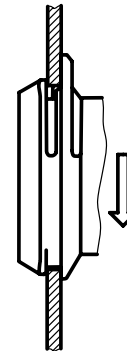Place the socket in top edge of the panel cut-out.

Step 3

Push the socket forward into the panel cut-out.

Step 2

Push the socket upwards.

Step 4

Release the socket. The component is self adjusting.

All Variants

Rated Current IEC [A]	Rated Current UL [A]	Filter-Type	Panel Thickness s [mm]	Additional ground terminal	Weight [g]	Order Number
10	15	-	1.2	-	13.9 g	GRF2.0212.11
10	15	-	1.5	-	13.9 g	GRF2.0215.11
10	15	-	2	-	13.9 g	GRF2.0220.11
10	15	-	1.2	Quick connect terminal 4.8 x 0.8 mm	14 g	GRF2.0312.11
10	15	-	1.5	Quick connect terminal 4.8 x 0.8 mm	25 g	GRF2.0315.11
10	15	-	2	Quick connect terminal 4.8 x 0.8 mm	14 g	GRF2.0320.11

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

Packaging unit

100 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 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 mm² / 3 x 18 AWG, Cable, Connector: IEC C13	4782
	4785 Mounting: Power Cord, 3 x 1 mm² / 3 x 18 AWG, Cable, Connector: IEC C13	4785
	4300-06 Mounting: Power Cord, 3 x 1 mm² / 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 mm² / 3 x 18 AWG, Cable, Connector: IEC C15	4784

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