Appliance Inlet DC Filter, ECO Design, Front- or Rear Side Mounting

Screw-on mounting, front or back side
PCB snap-in version
MOLEX HCS-125 connector

Screw-on mounting, front or back side
Quick connect terminals 6.3 x 0.8 mm
AMP Universal MATE-N-LOK or MOLEX MLX

Snap-in mounting
with wires (stranded)
AMP Universal MATE-N-LOK or MOLEX MLX

Description

- Panel Mount:
  Screw-on version from front or rear side, snap-in version from front side, PCB Version from rear side
- 2 Functions:
  Appliance Inlet, DC line filter in standard version
- Solder, quick connect or wires (stranded)

Approvals

- VDE Certificate Number: 40020642
- UL File Number: E72928

Characteristics

- Compact high-performance DC-filter
  Optimal shielding due to completely closed filter case, unpotted
- Applications:
- Mission Critical Ethernet LAN Routers
- High uptime Ethernet LAN Switches
- Fiber Optic WAN Switches
- Fiber Optic WAN Multiplexer

Other versions on request

- Snap-in for panel thickness >2mm to 3mm
- flexible wire with various lenghts
- Quick connect terminals 4.8 x 0.8 mm
- Capacity CY 5.5 nF
- with long earth pin in connector

References

PCB Mounting
Alternative: version 5120 for AC applications

Weblinks

pdf-datasheet, html-datasheet, General Product Information, Approvals, CE declaration of conformity, RoHS, CHINA-RoHS, REACH, Mating Connectors, e-Shop, SCHURTER-Stock-Check, Distributor-Stock-Check, CAD-Drawings, Accessories, Detailed request for product

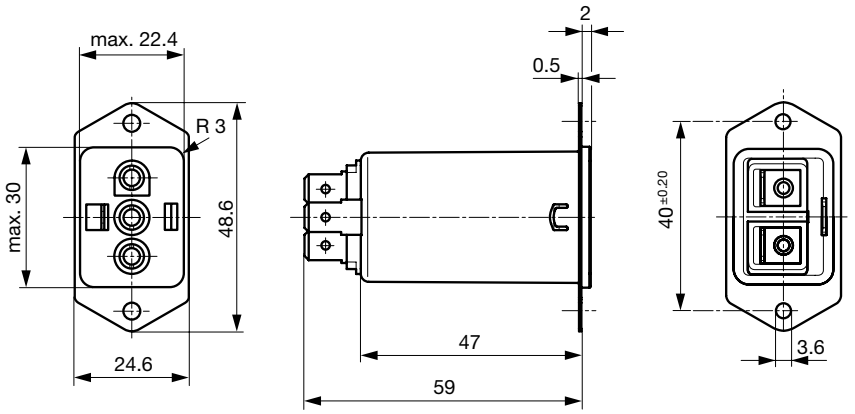
Technical Data

Ratings IEC	15 A / 125 VDC
Ratings UL/CSA	3 - 15 A @ Ta 40 °C / 125 VDC
Dielectric Strength	> 0.5 kVDC between (VAC 1 min., DIN EN 50155) > 1.1 kVDC between protective conductor and live parts Test voltage (2 sec)
Allowable Operation Temp.	-25 °C to 85 °C
Climatic Category	25/085/21 acc. to IEC 60068-1
Protection Class	Suitable for appliances with protection class I
Terminal	Quick connect terminals 6.3 x 0.8 mm Wire leads AWG 18 (10-15A AWG 16), 150 mm
Panel Thickness s	Screw: max 8 mm Mounting screw torque max 0.5 Nm Snap-in: 0.8 mm to 2 mm (all steps with one variant)
Material: Housing	Themoplast / steel tin-plated, black / metallic, UL 94V-0

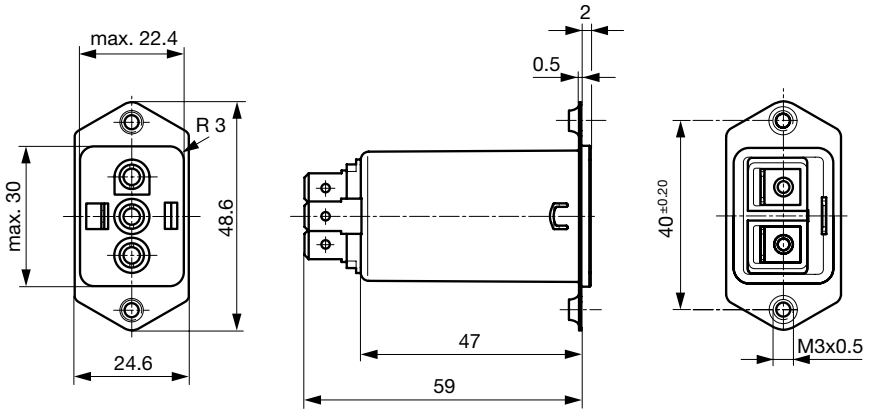
Line Filter	DC Standard Version, UL 1283 Technical Details
MTBF	> 3'900'000 h acc. to MIL-HB-217 F

Dimension

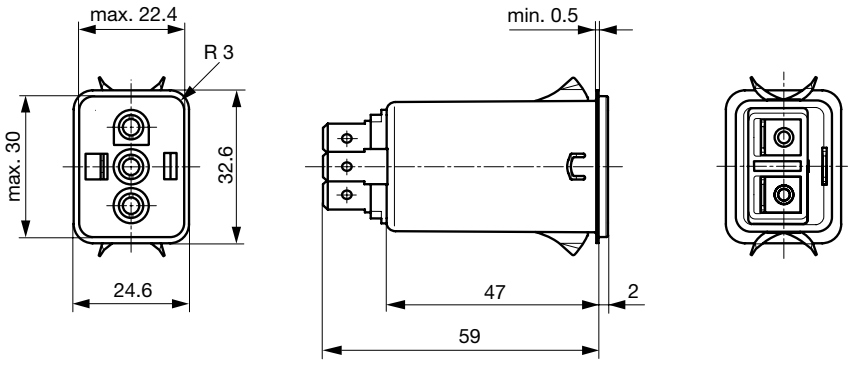
Front- or rear side mounting for screws with nuts or blind rivets, mating connector Molex HCS-125



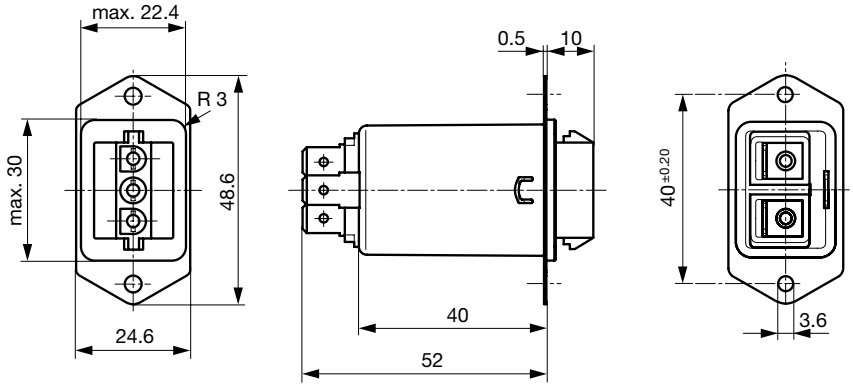
Rear side mounting with pre-formed, threaded holes for M3 screws, mating connector Molex HCS-125



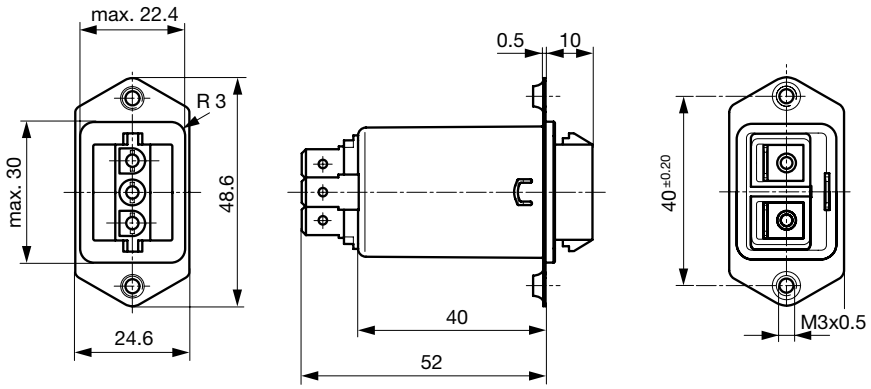
Snap-in mounting from front side, mating connector Molex HCS-125



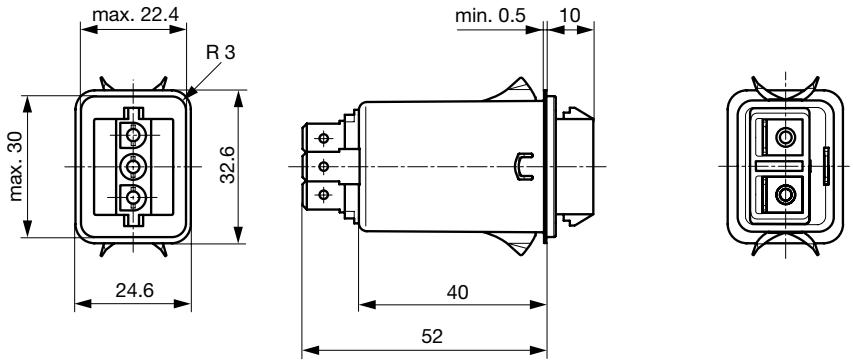
Front or rear side mounting for screws with nuts or blind rivets, mating connector AMP Universal MATE-N-LOK oder Molex MLX

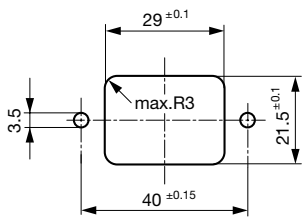


Rear side mounting with pre-formed, threaded holes for M3 screws, mating connector AMP Universal MATE-N-LOK or Molex MLX

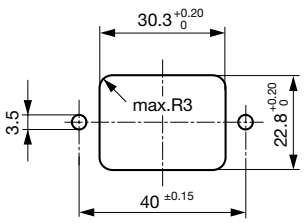


Snap-in mounting from front side, mating connector AMP Universal MATE-N-LOK or Molex MLX

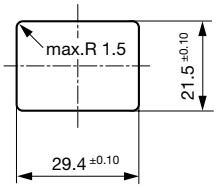




Panel cutout for front side mounting

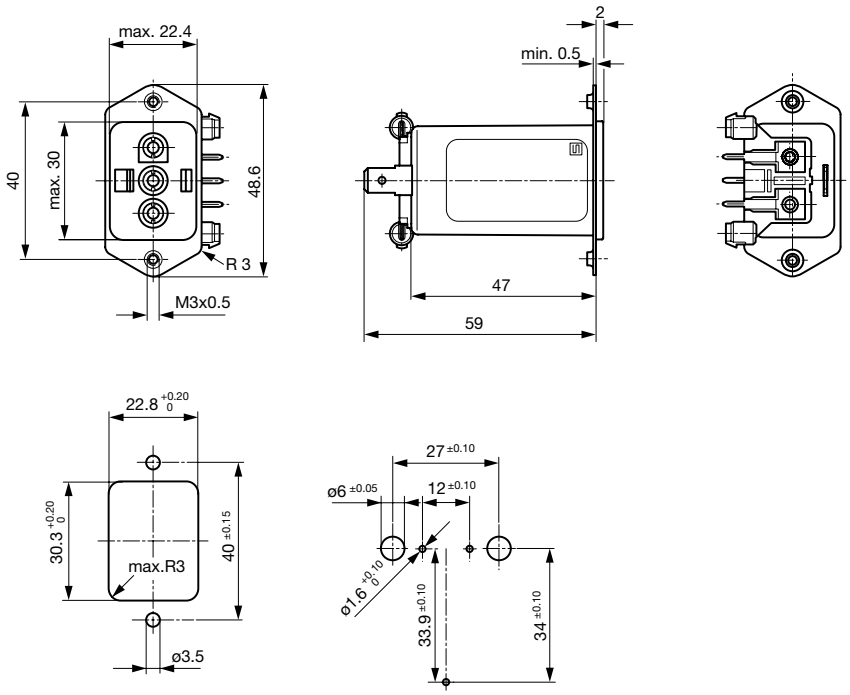


Panel cutout for rear side mounting

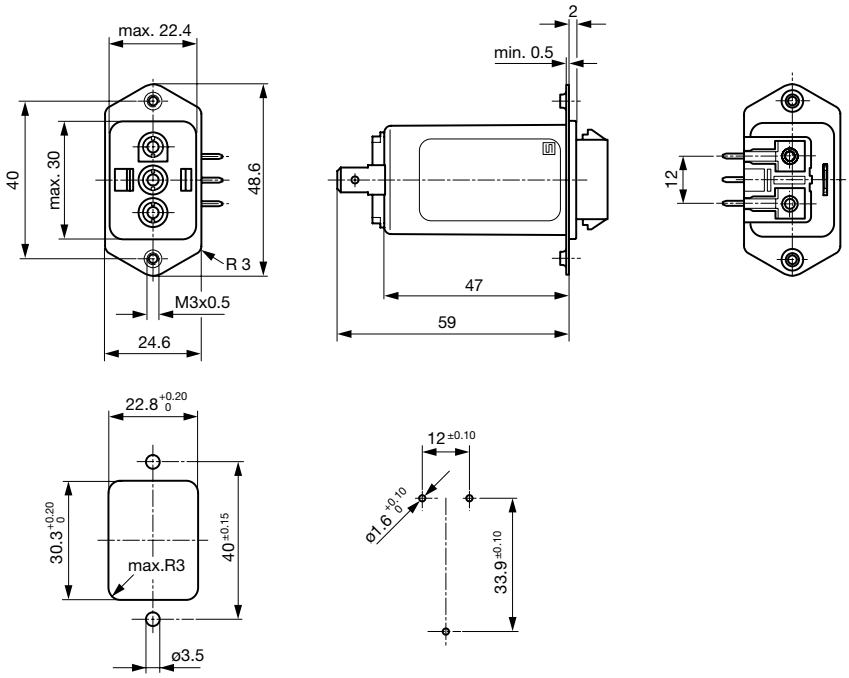


Panel cutout for snap-in mounting

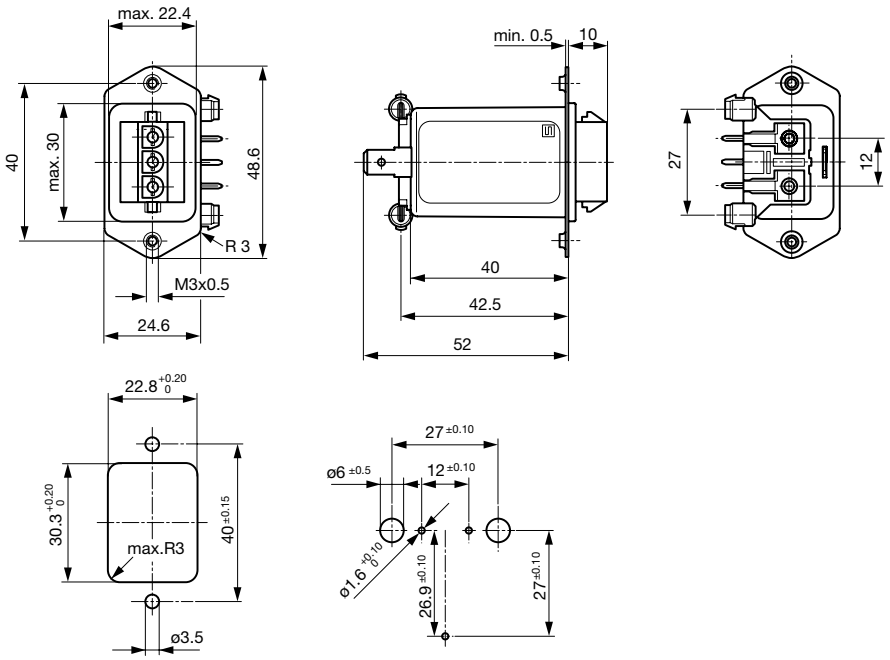
PCB snap-in rear-side mounting with pre-formed threaded holes for M3 screws, mating connector Molex HCS-125



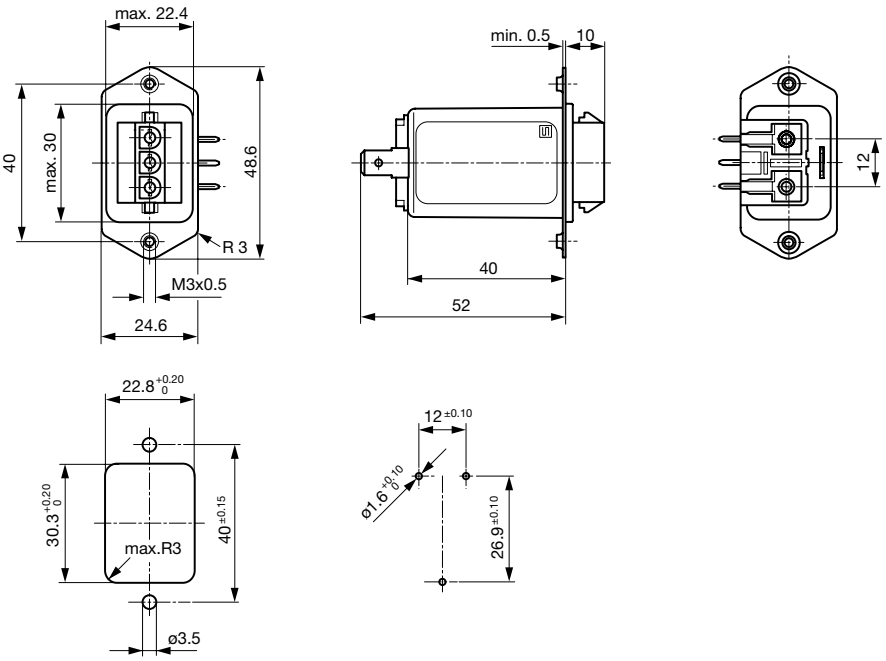
PCB rear-side mounting with pre-formed threaded holes for M3 screws, mating connector Molex HCS-125



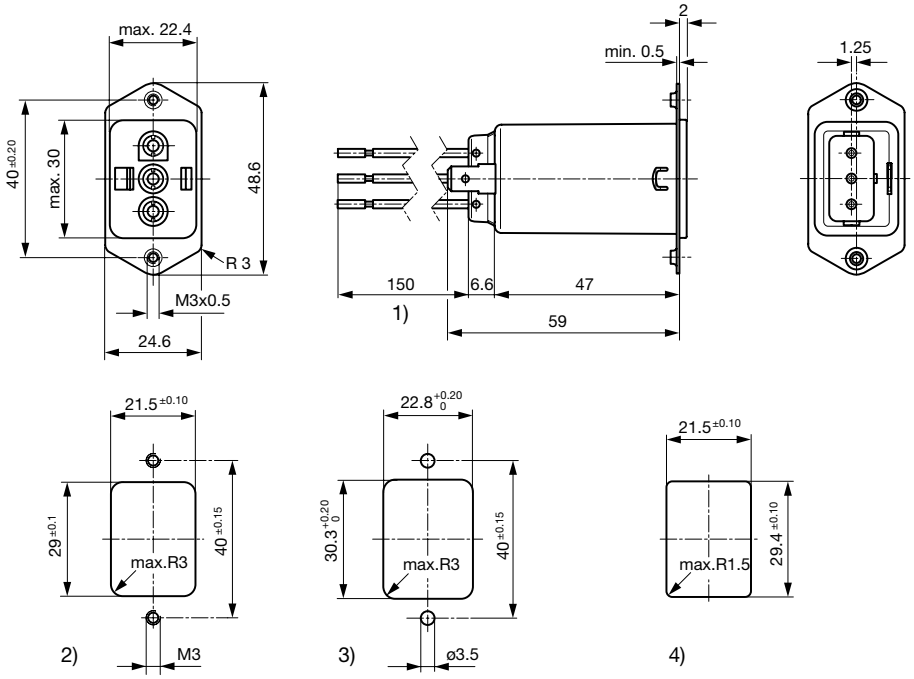
PCB snap-in rear-side mounting with pre-formed threaded holes for M3 screws, mating connector AMP Universal MATE-N-LOK or MOLEX MLX



PCB rear-side mounting with pre-formed threaded holes for M3 screws, mating connector AMP Universal MATE-N-LOK or Molex MLX



Screw and snap-in mounting with flexible wire, mating connector Molex HCS-125 or AMP Universal MATE-N-LOK



1) Flexible wire, standard length 150 mm or special length on request
2) Panel cut-out screw-on version, front-side mounting
3) Panel cut-out, screw-on version, back-side mounting
4) Panel cut-out snap-in version, front-side mounting

Mating Connector

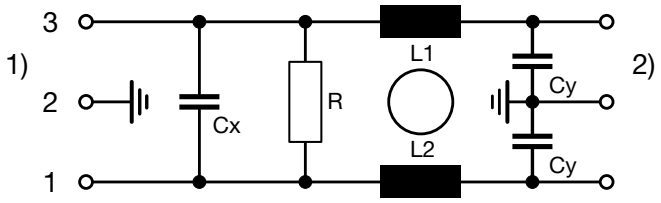
Molex HCS-125
Housing: Molex no. 03-12-1036
Female terminal (3 needed per housing): Molex no. 18-12-1222

AMP Universal MATE-N-LOK
Housing: AMP no. 1-480700-0
Female terminal (3 needed per housing): AMP no. 926901-1
Molex MLX
Housing: Molex no. 50-84-1030
Female terminal (3 needed per housing): Molex no. 02-08-1002

Technical Data of Filter-Components

Rated Current [A]	Filter-Type	Inductances L [mH]	Capacitance CX [nF]	Capacitance CY [nF]	R [MΩ]
3	DC Standard Version	2 x 4	100	4.7	1
6	DC Standard Version	2 x 0.8	100	4.7	1
10	DC Standard Version	2 x 0.4	100	4.7	1
15	DC Standard Version	2 x 0.1	100	4.7	1

Diagrams



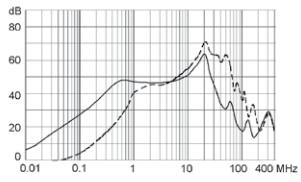
1) Line
2) Load

Attenuation Loss

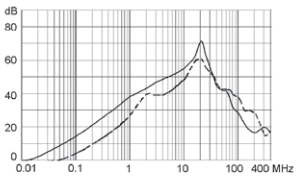
- - - - differential mode _____ common mode

Standard version

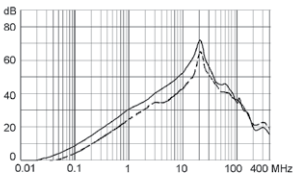
3 A



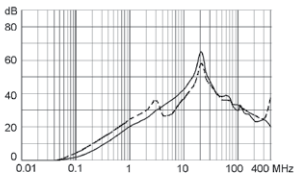
6 A



10 A



15A



All Variants

Rated Current [A]	Mounting	Mounting side	Terminal	Mating Connector	Order Number
3	Screw	Rear Side	Quick connect terminals 6.3 x 0.8 mm	Molex HCS-125	5003.0121.1
3	Screw/PCB	Rear Side	PCB pin and earth pin 6.3 x 0.8	Molex HCS-125	5003.015B.1
3	Screw/PCB snap-in	Rear Side	PCB pin and earth pin 6.3 x 0.8	Molex HCS-125	5003.016B.1
3	Screw-on/Rivet	Front-/Rear-Side	Quick connect terminals 6.3 x 0.8 mm	Molex HCS-125	5003.0111.1
6	Screw	Rear Side	Quick connect terminals 6.3 x 0.8 mm	Molex HCS-125	5003.0221.1
6	Screw/PCB	Rear Side	PCB pin and earth pin 6.3 x 0.8	Molex HCS-125	5003.025B.1
6	Screw/PCB snap-in	Rear Side	PCB pin and earth pin 6.3 x 0.8	Molex HCS-125	5003.026B.1
6	Screw-on/Rivet	Front-/Rear-Side	Quick connect terminals 6.3 x 0.8 mm	Molex HCS-125	5003.0211.1
6	Screw-on/Rivet	Front-/Rear-Side	Solder terminal	Molex HCS-125	5003.0213.1
10	Screw	Rear Side	Quick connect terminals 6.3 x 0.8 mm	Molex HCS-125	5003.0321.1
10	Screw/PCB	Rear Side	PCB pin and earth pin 6.3 x 0.8	Molex HCS-125	5003.035B.1
10	Screw/PCB snap-in	Rear Side	PCB pin and earth pin 6.3 x 0.8	Molex HCS-125	5003.036B.1
10	Screw-on/Rivet	Front-/Rear-Side	Quick connect terminals 6.3 x 0.8 mm	Molex HCS-125	5003.0311.1
10	Screw-on/Rivet	Front-/Rear-Side	Flexible wire and Earth pin 6.3 x 0.8	Molex HCS-125	5003.0316.1
15	Screw	Rear Side	Quick connect terminals 6.3 x 0.8 mm	Molex HCS-125	5003.0421.1
15	Screw/PCB	Rear Side	PCB pin and earth pin 6.3 x 0.8	Molex HCS-125	5003.045B.1
15	Screw/PCB snap-in	Rear Side	PCB pin and earth pin 6.3 x 0.8	Molex HCS-125	5003.046B.1
15	Screw-on/Rivet	Front-/Rear-Side	Quick connect terminals 6.3 x 0.8 mm	Molex HCS-125	5003.0411.1
3	Screw	Rear Side	Quick connect terminals 6.3 x 0.8 mm	AMP / Molex MLX	5003.1121.1
3	Screw/PCB	Rear Side	PCB pin and earth pin 6.3 x 0.8	AMP / Molex MLX	5003.115B.1
3	Screw/PCB snap-in	Rear Side	PCB pin and earth pin 6.3 x 0.8	AMP / Molex MLX	5003.116B.1
3	Screw-on/Rivet	Front-/Rear-Side	Quick connect terminals 6.3 x 0.8 mm	AMP / Molex MLX	5003.1111.1
6	Screw	Rear Side	Quick connect terminals 6.3 x 0.8 mm	AMP / Molex MLX	5003.1221.1
6	Screw/PCB	Rear Side	PCB pin and earth pin 6.3 x 0.8	AMP / Molex MLX	5003.125B.1
6	Screw/PCB snap-in	Rear Side	PCB pin and earth pin 6.3 x 0.8	AMP / Molex MLX	5003.126B.1
6	Screw-on/Rivet	Front-/Rear-Side	Quick connect terminals 6.3 x 0.8 mm	AMP / Molex MLX	5003.1211.1
10	Snap-in	Front Side	Flexible wire and Earth pin 6.3 x 0.8	AMP / Molex MLX	5003.1336.1
10	Screw	Rear Side	Quick connect terminals 6.3 x 0.8 mm	AMP / Molex MLX	5003.1321.1
10	Screw	Rear Side	Solder terminal	AMP / Molex MLX	5003.1323.1
10	Screw/PCB	Rear Side	PCB pin and earth pin 6.3 x 0.8	AMP / Molex MLX	5003.135B.1
10	Screw/PCB snap-in	Rear Side	PCB pin and earth pin 6.3 x 0.8	AMP / Molex MLX	5003.136B.1
10	Screw-on/Rivet	Front-/Rear-Side	Quick connect terminals 6.3 x 0.8 mm	AMP / Molex MLX	5003.1311.1
15	Snap-in	Front Side	Quick connect terminals 6.3 x 0.8 mm	AMP / Molex MLX	5003.1431.1
15	Snap-in 2 - 3 mm	Front Side	Flexible wire and Earth solder terminal	AMP / Molex MLX	5003.1448.1
15	Screw	Rear Side	Quick connect terminals 6.3 x 0.8 mm	AMP / Molex MLX	5003.1421.1
15	Screw/PCB	Rear Side	PCB pin and earth pin 6.3 x 0.8	AMP / Molex MLX	5003.145B.1
15	Screw/PCB snap-in	Rear Side	PCB pin and earth pin 6.3 x 0.8	AMP / Molex MLX	5003.146B.1
15	Screw-on/Rivet	Front-/Rear-Side	Quick connect terminals 6.3 x 0.8 mm	AMP / Molex MLX	5003.1411.1

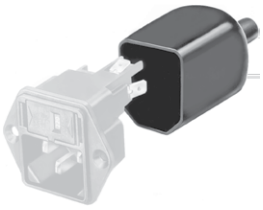
Most Popular.

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

Type for screw on mounting from rear side has pre-threaded holes for M3 screws

Packaging unit 10 Pcs

Accessories



Assorted Covers
Rear Cover

Description	
	0859.0048

Cord retaining kits
Cord retaining strain relief

Description	
Flat head, Z	0888.0021
Flat head, E	4700.0005
Flat head, G	4700.0007

24.08.2015

The specifications, descriptions and illustrations indicated in this document are based on current information. All content is subject to modifications and amendments. Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability and test each product selected for their own applications.