

Patch panels - PP-RJ-SCC-F - 2703022

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Patch panel, RJ45 socket on Push-in terminal blocks, 10/100/1000 Mbps, DIN rail mounting, IP20, shield contacting with strain relief, shield current monitoring, surge protection

Your advantages

- ✓ Extended temperature range of -40°C to +75°C
- ✓ Fast connection of the field cable
- ✓ Wiring space covered with front panel cover
- ✓ Tool-free shield contacting with strain relief
- ✓ Integrated surge protection to ensure high system availability
- ✓ Shield current monitoring with visual display
- ✓ 10/100/1000 Mbps
- ✓ Shipbuilding approval in accordance with DNV GL



Distributed
Network
Protocol



Key Commercial Data

Packing unit	1 pc
GTIN	
GTIN	4055626463346

Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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Dimensions

Width	23.8 mm
Height	101.3 mm
Depth	86 mm

Ambient conditions

Ambient temperature (operation)	-40 °C ... 75 °C
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Technical data

Ambient conditions

Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	10 % ... 95 % (non-condensing)
Altitude	≤ 5000 m (For restrictions, see the manufacturer's declaration for altitude operation)
	≤ 2000 m (Restrictions for ATEX applications)
Degree of protection	IP20 (Manufacturer's declaration)

General

Electrical isolation	FE // Ethernet
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Net weight	124.2 g
Housing material	Plastic
Color	gray
MTTF	3281 Years (SN 29500 standard, temperature 25 °C, operating cycle 21 % (5 days a week, 8 hours a day))
	1245 Years (SN 29500 standard, temperature 40 °C, operating cycle 34.25 % (5 days a week, 12 hours a day))
	472 Years (SN 29500 standard, temperature 40 °C, operating cycle 100 % (7 days a week, 24 hours a day))
Degree of pollution	2
Overvoltage category	II

Power supply

Supply voltage range	36 V DC ... 52 V DC #10 % (via PoE)
	42 V DC ... 57 V DC (With UL approval)

Serial interface

Interface 1	Ethernet interface, 10/100/1000Base-T(X) according to IEEE 802.3u
Connection method	Push-in connection
Transmission length	100 m (including patch cables)
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	1.5 mm²
Conductor cross section flexible min.	0.2 mm²
Conductor cross section flexible max.	1.5 mm²
Conductor cross section AWG min.	26
Conductor cross section AWG max.	16
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² ... 1.5 mm² (only together with CRIMPFOX 6)
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² ... 1.5 mm² (only together with CRIMPFOX 6)
Stripping length	8 mm
Pin assignment	1:1
Serial transmission speed	10/100/1000 Mbps
Maximum output current	725 mA (PoE)
Current carrying capacity	≤ 1.5 A (≤ 60 W (PoE+))
Maximum output power	60 W

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Serial interface

Interface 2	Ethernet interface, 10/100/1000Base-T(X) according to IEEE 802.3u
Connection method	RJ45 CAT5e

Function

Designation	Shield current monitoring
Switch-on threshold	$\geq 30 \text{ mA}$
Local diagnostics	Yellow LED
Precision	$\pm 5 \%$
Response time	3 s
Continuous shield current	$\leq 1.5 \text{ A}$
Power consumption	270 mW (Shield current monitoring)
Impedance	$\leq 1 \Omega$
Voltage	$\leq 10 \text{ V}$

Conformance/approvals

Designation	CE
Identification	CE-compliant
Designation	ATEX
Identification	# II 3 G Ex nA nC IIC T4 Gc X
Additional text	Please follow the special installation instructions in the documentation!
Designation	UL, USA/Canada
Identification	Class I, Zone 2, AEx nA IIC T4, Ex nA IIC Gc X T4
	Class I, Div. 2, Groups A, B, C, D
Designation	UL, USA
Certificate	UL 60079-0 Ed. 6 / UL 60079-15 Ed. 4
Designation	UL, Canada
Certificate	CSA 22.2 No. 60079-0 Ed. 3 / CSA 22.2 No. 60079-15:16
Designation	Corrosive gas test
Identification	ISA-S71.04-1985 G3 Harsh Group A
Designation	Shipbuilding
Identification	DNV GL
Temperature	D
Humidity	B
Vibration	B
EMC	B

Standards and Regulations

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Type of test	Vibration resistance in acc. with EN 60068-2-6/IEC 60068-2-6
Test result	10 Hz ... 57 Hz, amplitude $\pm 3.5 \text{ mm}$, 57 Hz ... 150 Hz, 5g
Type of test	Shock in acc. with EN 60068-2-27/IEC 60068-2-27
Test result	30g for 11 ms, three shocks in each spatial direction

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Technical data

Standards and Regulations

Type of test	Continuous shock according to EN 60068-2-27/IEC 60068-2-27
Test result	10g for 16 ms, 1000 shocks in each spatial direction
Standards/regulations	EN 61000-4-2
Contact discharge	± 6 kV (Test Level 3)
Indirect discharge	± 6 kV
Standards/regulations	EN 61000-4-3
Frequency range	80 MHz ... 3 GHz (Test Level 3)
Standards/regulations	EN 61000-4-4
Comments	Criterion B
Standards/regulations	EN 61000-4-5
Signal	± 1 kV (Data line, asymmetrical)
Standards/regulations	EN 61000-6-4
	EN 61000-4-6
Frequency range	0.15 MHz ... 80 MHz
Standards/regulations	DIN EN 61643-21
Rated insulation voltage	85 V DC
IEC test classification	C2

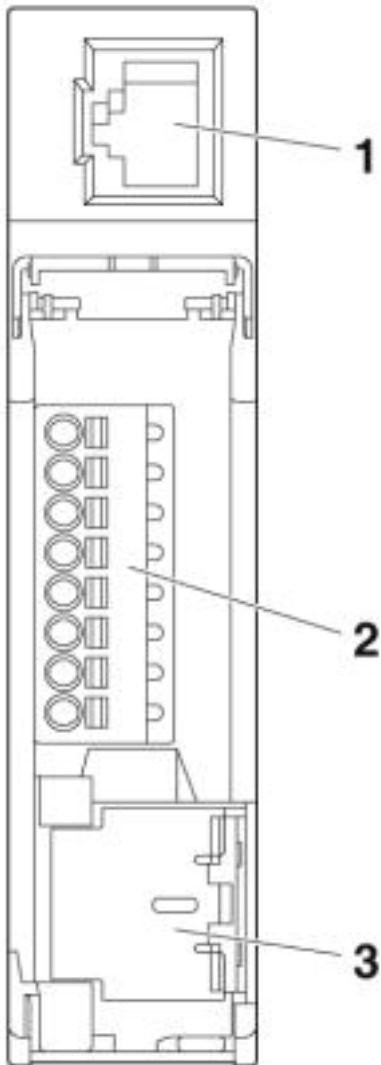
Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Drawings

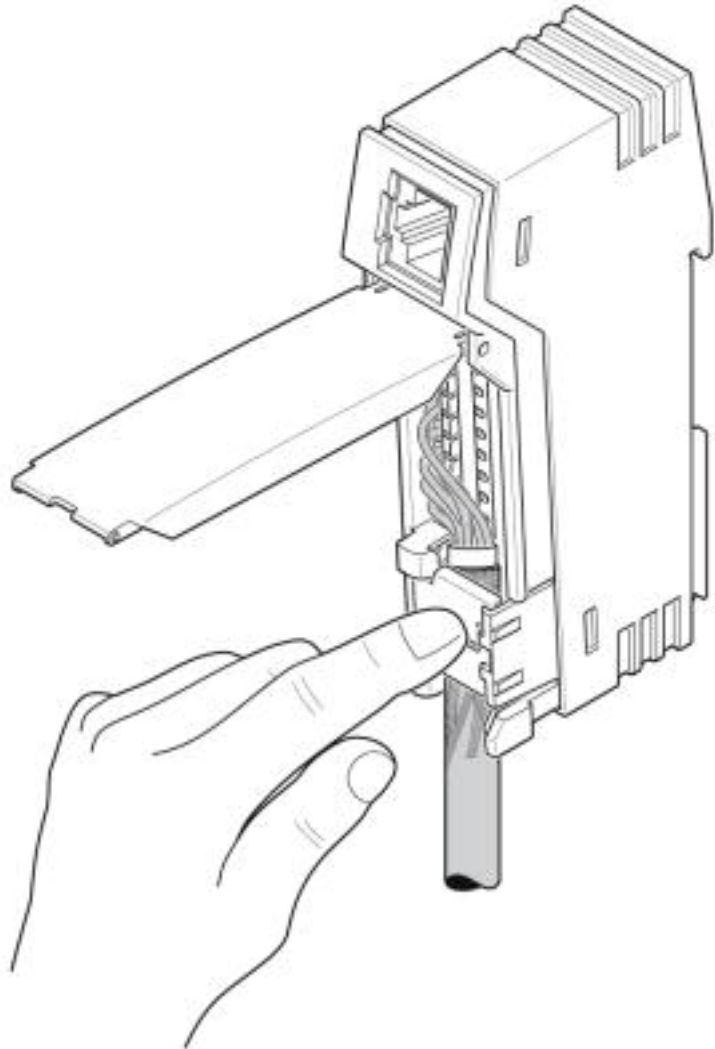
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Schematic diagram



Front view

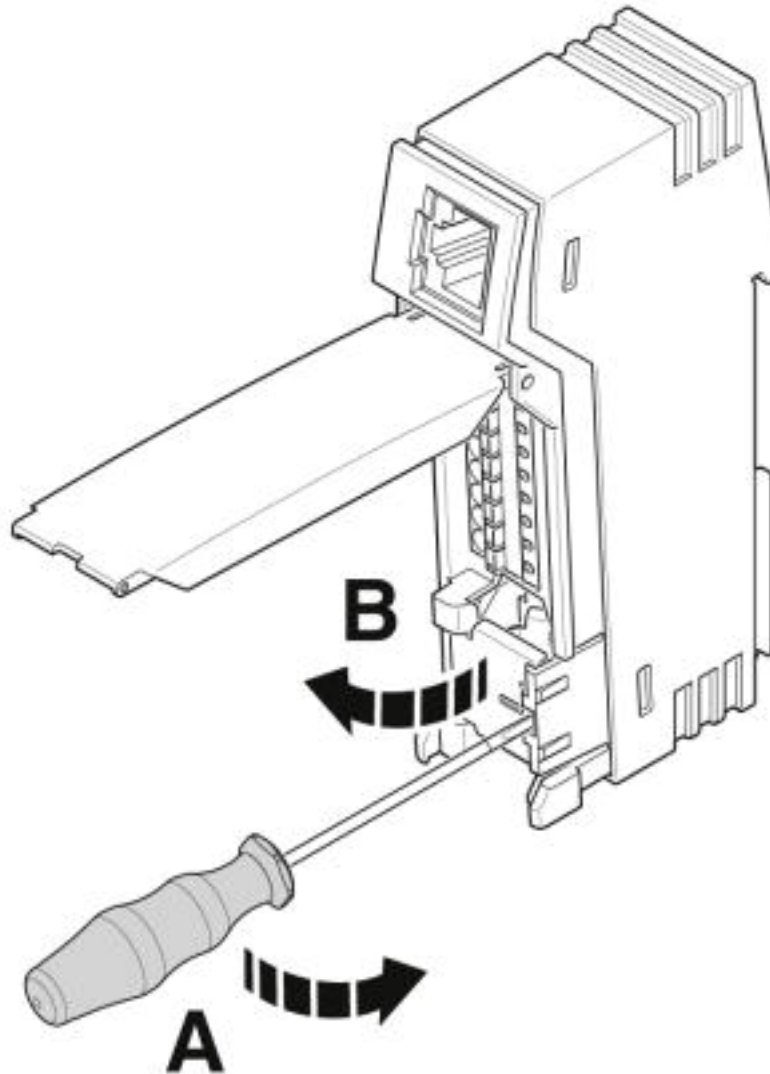
Schematic diagram



Close shield contact spring

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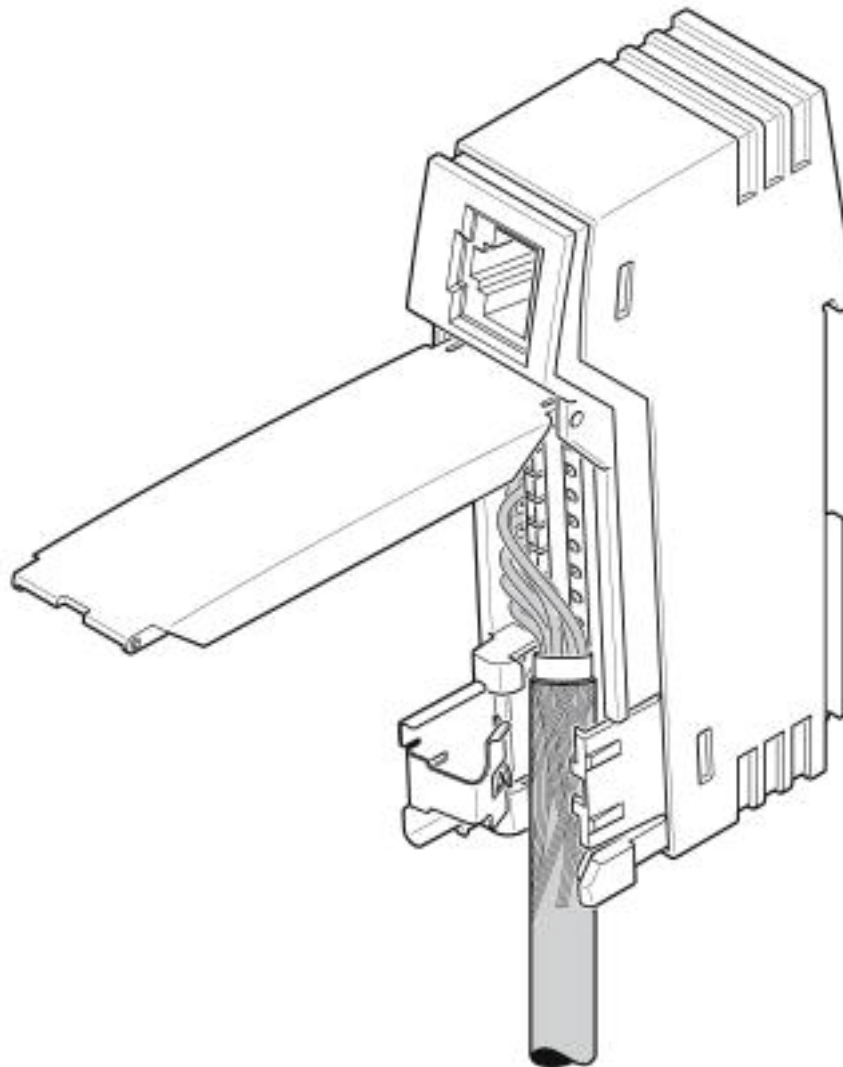
Schematic diagram



Open shield contact spring

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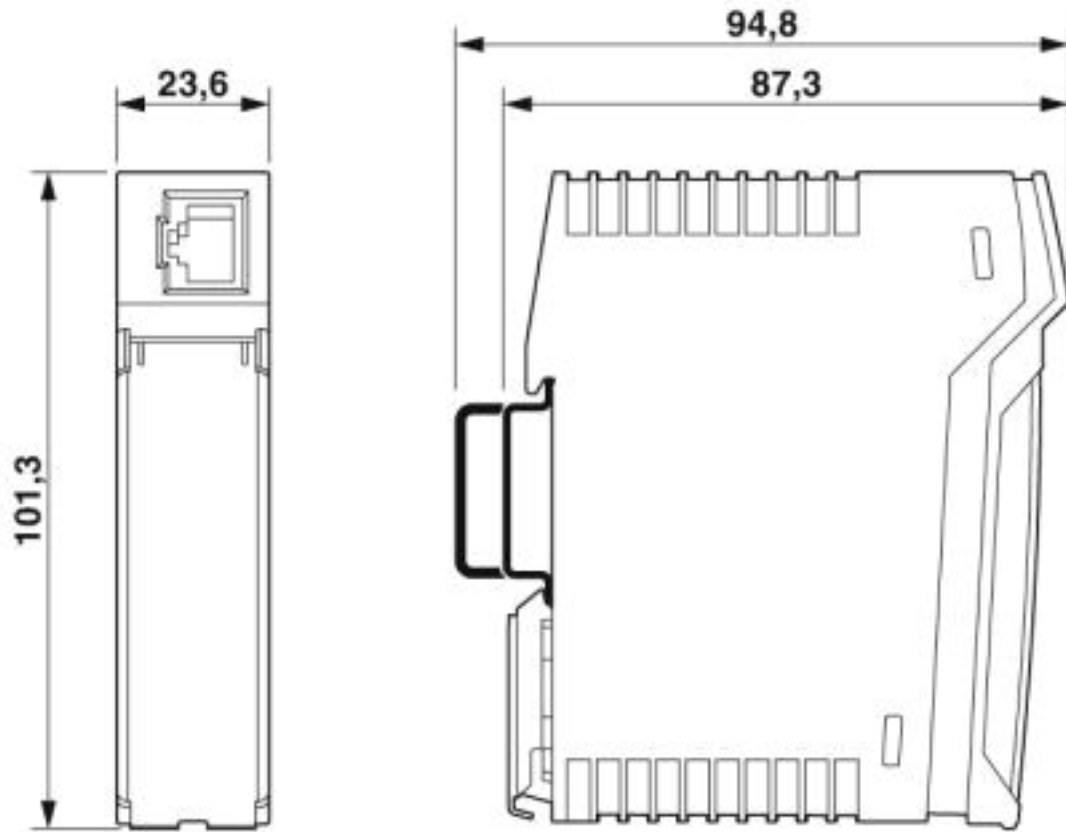
Schematic diagram



Inserting the cable

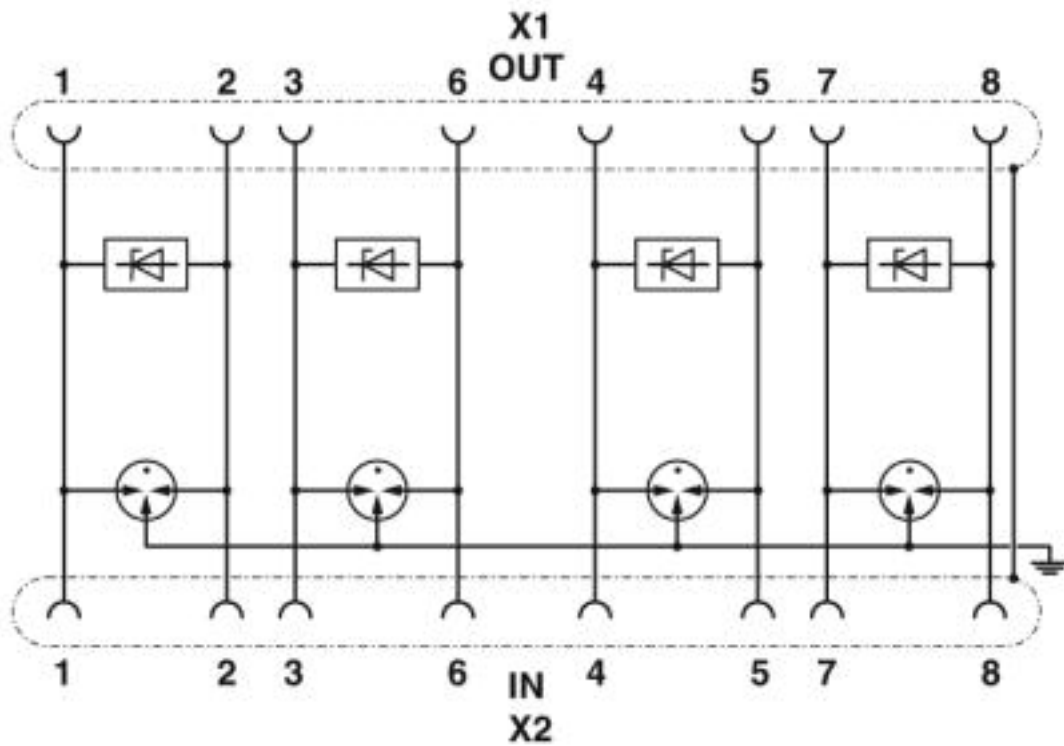
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Dimensional drawing

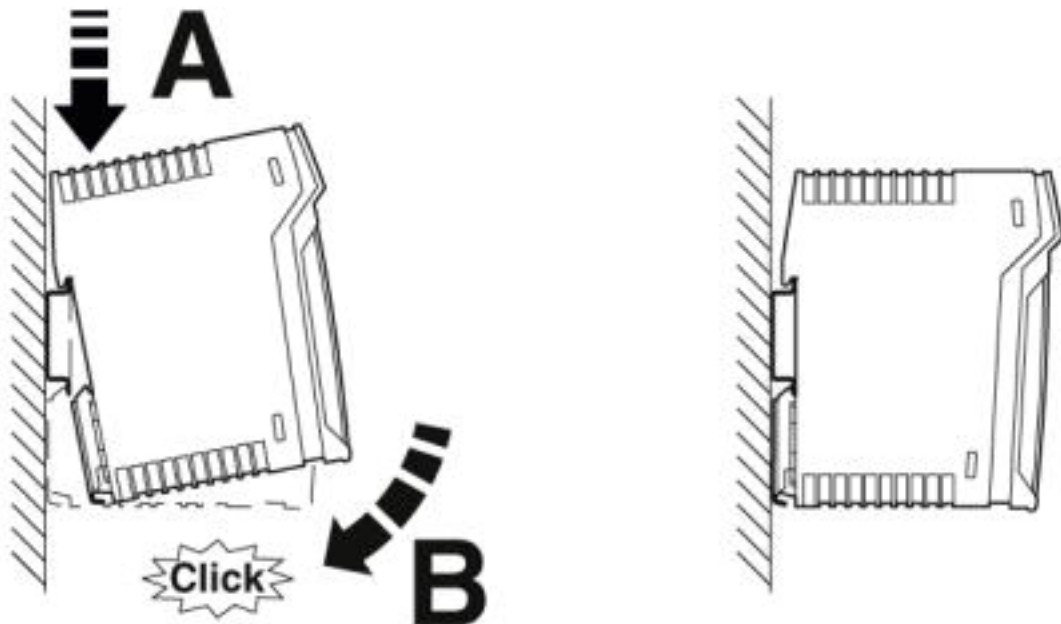


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Circuit diagram



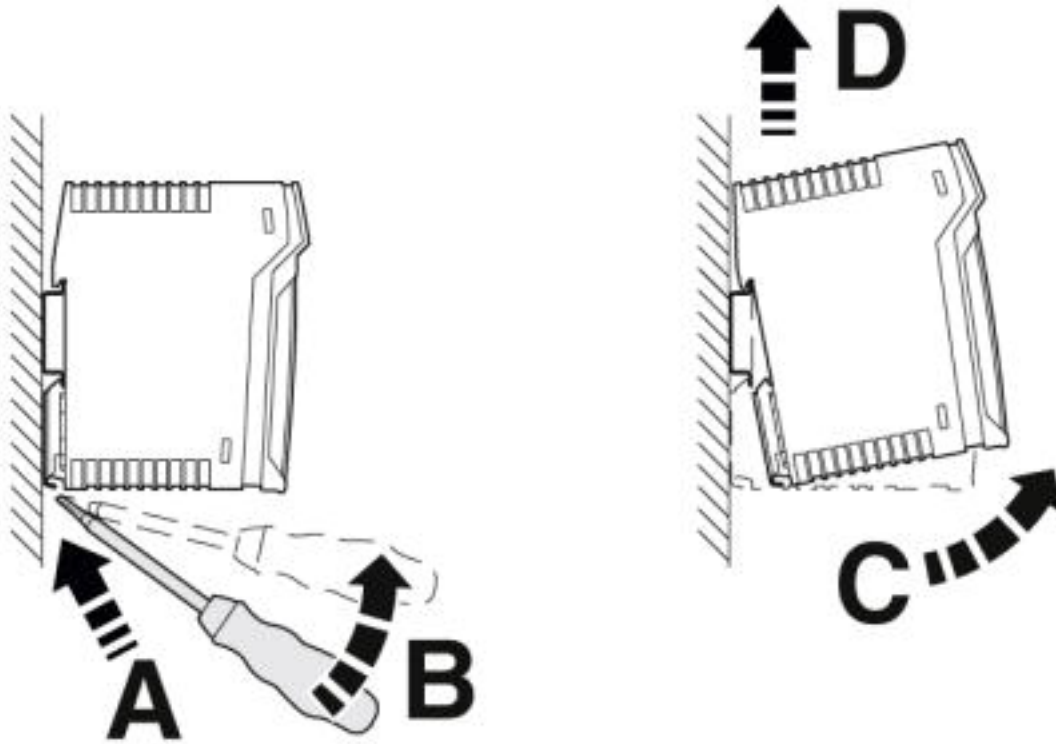
Schematic diagram



Mounting on a DIN rail

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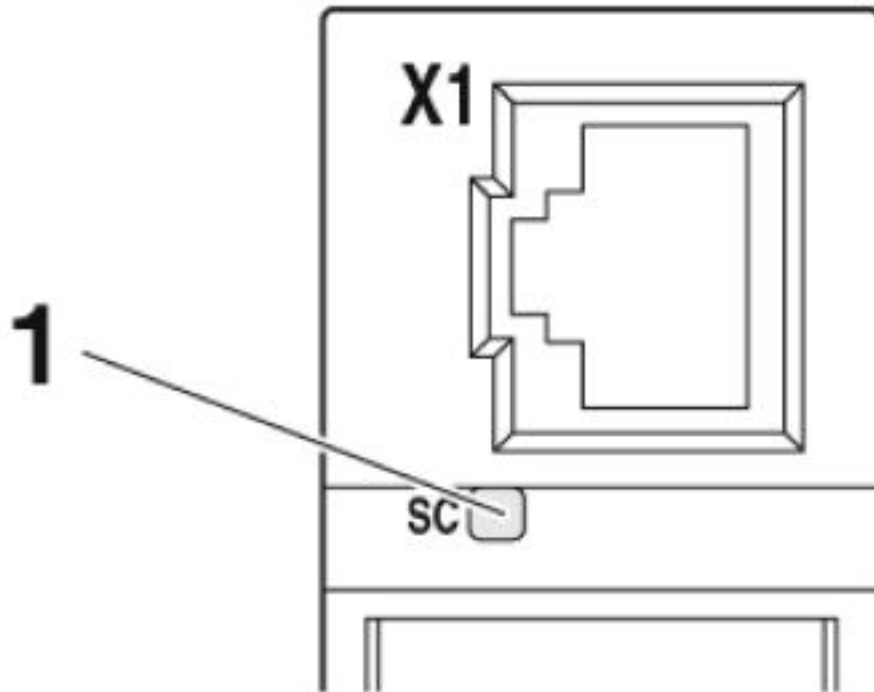
Schematic diagram



Removal

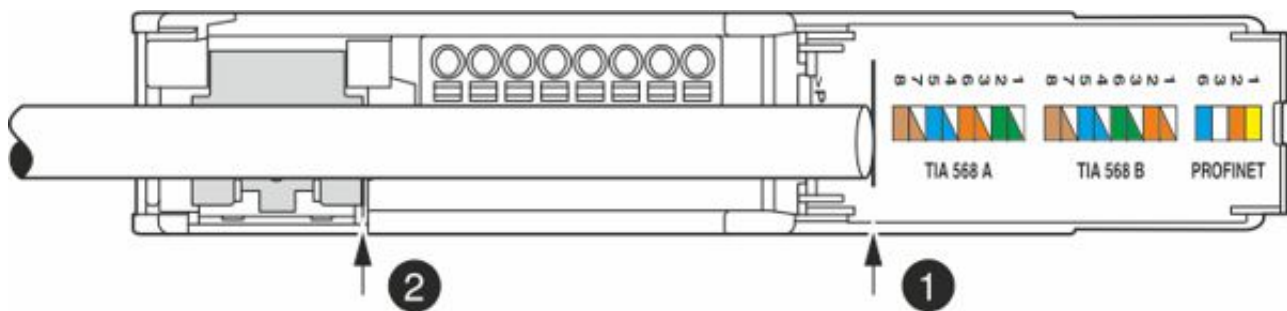
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Schematic diagram



Shield current monitoring

Schematic diagram



Stripping length

Approvals

Approvals

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Approvals

Approvals

UL Listed / cUL Listed / DNV GL / cULus Listed

Ex Approvals

ATEX / cULus Listed

Approval details

UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705
cUL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705
DNV GL		https://approvalfinder.dnvgl.com/	TAA00001KR
cULus Listed			

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PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstr. 8
32825 Blomberg
Germany
Tel. +49 5235 300
Fax +49 5235 3 41200
<http://www.phoenixcontact.com>