

https://www.phoenixcontact.com/us/products/2703023



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Patch panel, RJ45 jack on IDC terminal blocks, CAT5e, 10/100/1000 Mbps, DIN rail adapter, IP20, shield contacting with strain relief, shield current monitoring, surge protection

Product description

Ethernet patch panels enable quick and easy connection between the field cabling and control cabinet cabling. The passive termination panels are a convenient alternative to the on-site assembly of RJ45 connectors. The IDC fast connection terminal blocks enable tool-free connection without stripping the single-core wires. The terminal blocks with inserted wires are simply pressed shut by hand. Observe the permissible single-core wire diameter and the permissible insulation material.

Your advantages

- 10/100/1000 Mbps
- Extended temperature range of -40 $^{\circ}\text{C}$... +75 $^{\circ}\text{C}$
- · 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
- · Shipbuilding approval in accordance with DNV GL
- PoE-capable in accordance with IEEE 802.3bt, type 4

Commercial data

Item number	2703023
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN07
Product key	DNC334
GTIN	4055626463353
Weight per piece (including packing)	139.1 g
Weight per piece (excluding packing)	124.2 g
Customs tariff number	85369010
Country of origin	DE



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Technical data

Notes

Note on application	
Note on application	Only for industrial use
Utilization restriction	
CCCex note	Use in potentially explosive areas is not permitted in China.
Product properties	
Product type	Patch panel
IEC test classification	C2
MTTF	3281 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)
	1245 Years (SN 29500 standard, temperature 40°C, operating cycle 34.25%)
	472 Years (SN 29500 standard, temperature 40°C, operating cycle 100%)
Insulation characteristics	
Overvoltage category	II
Pollution degree	2
lectrical properties	
Electrical isolation	FE // Ethernet
Maximum power dissipation for nominal condition	0 W
Rated insulation voltage	85 V DC
Supply	
Supply voltage range	36 V DC 52 V DC ±10 % (via PoE)
	42 V DC 57 V DC (in acc. with UL)
Function	
Designation	Shield current monitoring
Switch-on threshold	≥ 30 mA
Local diagnostics	Yellow LED
Precision	± 5 %
Response time	3 s
Current	≤ 1.5 A
Power consumption	270 mW (Shield current monitoring)
Impedance	≤ 1 Ω
Mallana	440.1/

≤ 10 V

Interfaces

Voltage

Data: Ethernet interface, 10/100/1000Base-T(X) in accordance with IEEE 802.3



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Serial transmission speed	10/100/1000 Mbps
Frequency range	125 MHz
Connection method	IDC connection
Note on the connection method	CAT5e
Pin assignment	1:1
Transmission length	100 m (including patch cables)
Single conductor/terminal point, rigid	0.14 mm² 0.34 mm²
Single-wire/terminal point, flexible	0.14 mm² 0.34 mm²
Max. AWG conductor cross-section, flexible	22
Min. AWG conductor cross-section, flexible	26
Single-wire/terminal point, rigid AWG max.	22
Single-wire/terminal point, rigid AWG min.	26
Wire diameter incl. insulation	1.6 mm (Terminal block is tested with PVC insulation - other insulation materials available on request)
Frequency of connections between conductors of the same cross section	10
Transmission medium	Copper
Maximum output power	60 W
Maximum output current	725 mA (PoE)
Current carrying capacity	≤ 1.5 A (≤ 60 W (PoE+))

Data: Ethernet interface, 10/100/1000Base-T(X) in accordance with IEEE 802.3

Connection method	RJ45 jack

Signaling

Optical representation	Yellow LED
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Dimensions

Dimensional drawing	94.8
Width	23.8 mm
Height	101.3 mm
Depth	86 mm

Material specifications

Color (Housing)	light gray (RAL 7035)
Material (Housing)	Plastic
Flammability rating according to UL 94	V0

Cable/line

External cable diameter	5.5 mm 6.5 mm



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Mechanical tests

Vibration resistance in accordance with EN 60068-2-6/IEC 60068-2-6	: 10 Hz 57 Hz, amplitude ±3.5 mm, 57 Hz 150 Hz, 5g
Shock in accordance with EN 60068-2-27/IEC 60068-2-27	: 30g for 11 ms, three shocks in each spatial direction
Continuous shock in accordance with EN 60068-2-27/IEC 60068-2-27	: 10g for 16 ms, 1000 shocks in each spatial direction

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20 (Manufacturer's declaration)
Ambient temperature (operation)	-40 °C 75 °C
Ambient temperature (storage/transport)	-40 °C 85 °C
Altitude	≤ 5000 m (For restrictions, see the manufacturer's declaration for altitude operation)
	≤ 2000 m (Restrictions for ATEX applications)
Permissible humidity (operation)	10 % 95 % (non-condensing)

Approvals

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Certificate	CE-compliant
ATEX	
Identification	
Certificate	PxCIF18ATEX2703020X
Note	Please follow the special installation instructions in the documentation!
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
UL, USA	
Certificate	UL 60079-0 Ed. 6 / UL 60079-15 Ed. 4
UL, Canada	
Certificate	CSA 22.2 No. 60079-0 Ed. 3 / CSA 22.2 No. 60079-15:16
Corrosive gas test	
Identification	ISA-S71.04-1985 G3 Harsh Group A
Shipbuilding	
Identification	DNV GL
Shipbuilding data	
Temperature	D
Humidity	В
Vibration	В



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EMC		В		
EMC data				
Electromagnetic compatibility		Conformance with EMC Directive 2014/30/EU		
Liousianiughalo compalibility	FCC Part 15B Class A			
		CISPR 22		
Electrostatic discharge				
Standards/regulations		EN 61000-4-2		
Staridards/regulations		LN 01000-4-2		
Electrostatic discharge				
Contact discharge		± 6 kV (Test Level 3)		
Discharge in air		± 8 kV (Test Level 3)		
Indirect discharge		± 6 kV		
Comments		Criterion B		
Electromagnetic HF field				
Standards/regulations		EN 61000-4-3		
Electromagnetic HF field				
Frequency range		80 MHz 3 GHz (Test Level 3)		
Field intensity		10 V/m		
Comments		Criterion A		
Fast transients (burst)				
Standards/regulations		EN 61000-4-4		
Fast transients (burst)				
Input		± 2.2 kV (1 minute)		
Signal		± 2.2 kV (1 minute)		
Comments		Criterion B		
Surge current load (surge)				
Standards/regulations		EN 61000-4-5		
Surge current load (surge)				
Input		± 0.5 kV		
Signal		± 1 kV (Data line, asymmetrical)		
Conducted interference				
Standards/regulations		EN 61000-4-6		
Conducted interference				
		0.45 MHz = 00 MHz		
Frequency range Comments		0.15 MHz 80 MHz		
		Criterion A		
Voltage		10 V		
Emitted interference				
Standards/regulations		EN 61000-6-4		



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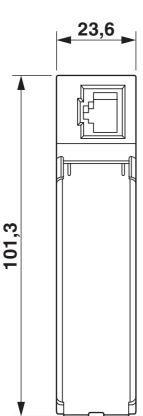
Comments	Class A, industrial applications
Emitted interference	
Standards/regulations	EN 61000-6-3
Comments	Class B, domain of use: residential and small commercial
Criteria	
Criterion A	Normal operating behavior within the specified limits.
Criterion B	Temporary impairment to operational behavior that is corrected by the device itself.
tandards and regulations	
Standards/regulations	DIN EN 61643-21
ounting	
Mounting type	DIN rail mounting
Useable DIN rail type	DIN rail: 35 mm

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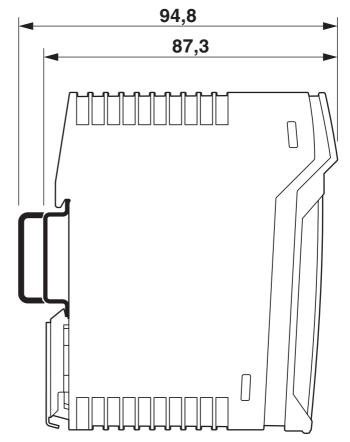
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Drawings



Dimensional drawing



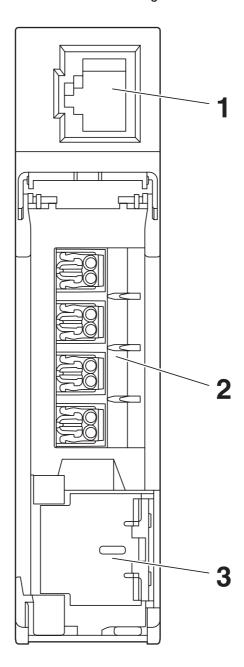
Housing dimensions

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Schematic diagram



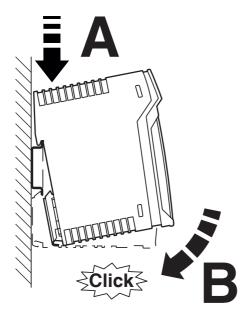
Front view

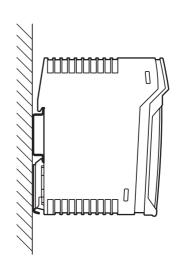
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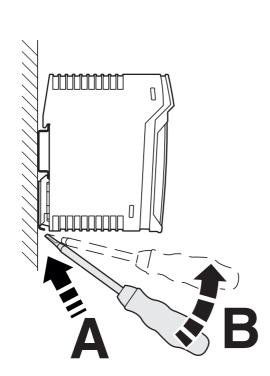
Schematic diagram

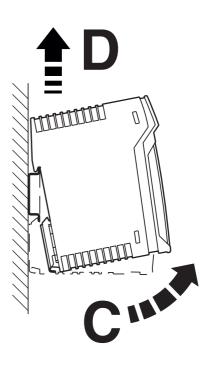




Mounting on a DIN rail

Schematic diagram





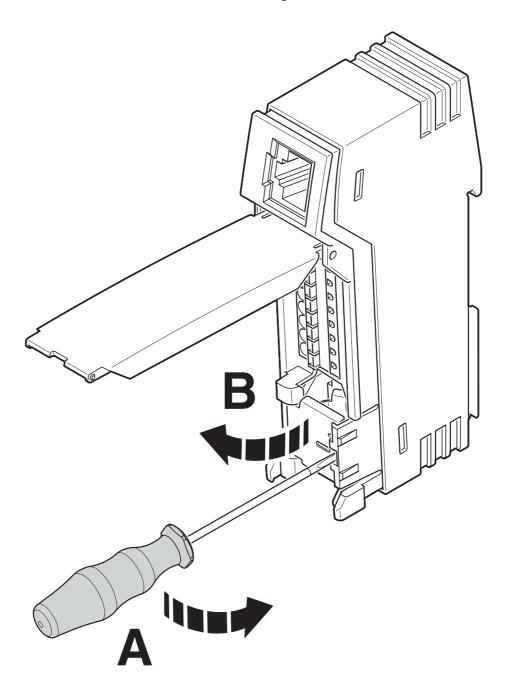
Removal

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Schematic diagram



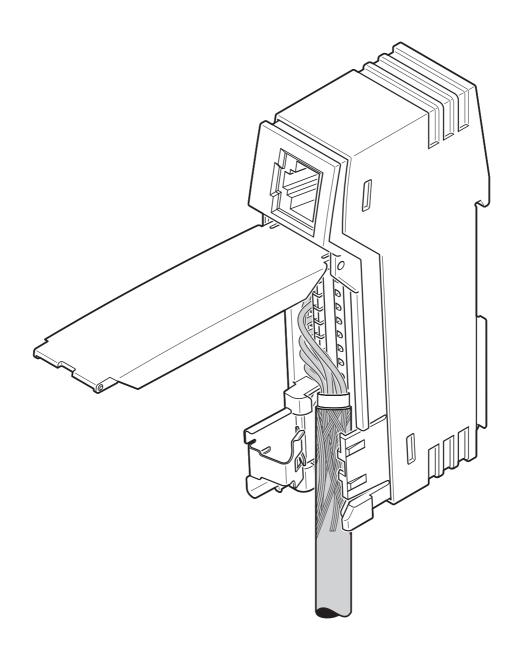
Open shield contact spring

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Schematic diagram



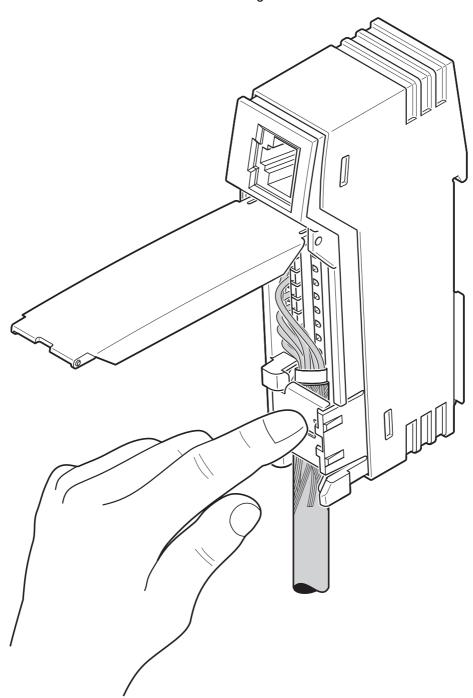
Inserting the cable

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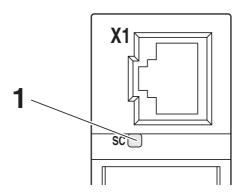
Close shield contact spring

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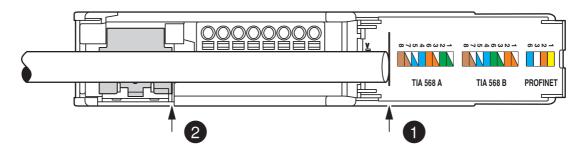


Schematic diagram



Shield current monitoring

Schematic diagram



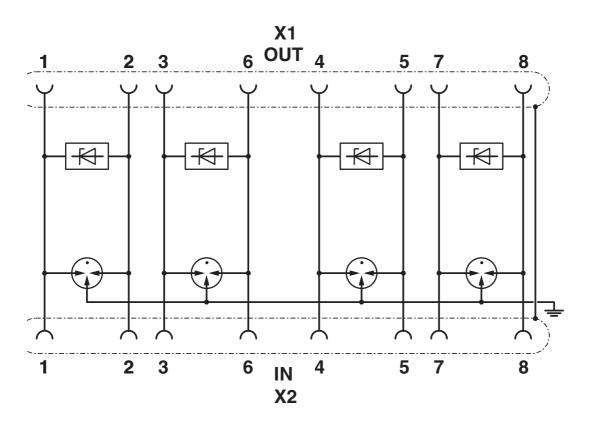
Stripping length

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Circuit diagram



Circuit diagram



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Approvals

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DNV GL

Approval ID: TAA00001KR



ATEX

Approval ID: PxCIF18ATEX2703020X



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Classifications

UNSPSC 21.0

ECLASS

	ECLASS-13.0	19170112			
	ECLASS-15.0	19170112			
ETIM					
	ETIM 9.0	EC001128			
UNSPSC					

43223300

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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-l
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	b4311499-a599-4817-84c1-5e65ffb15e57

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