PSR-SACB-4/4-L- 5,0PUR-SD - Distributor box

2981871

https://www.phoenixcontact.com/gb/products/2981871

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The figure shows a version of the product

The sensor box PSR-SACB for safety limit switches safely interconnects up to 4 connected limit switches, each with 1 N/C contact and 1 N/O contact, to a safety relay combination, e. g. PSR-SDC4, cable length: 5 m

Your advantages

- Safety in the field, thanks to robust housing and high degree of protection
- Flexible, distributed bundling of signals in one master cable
- Convenient: increased machine availability thanks to quick and easy diagnostics

Commercial data

Item number	2981871
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DNA222
Product key	DNA222
GTIN	4046356167970
Weight per piece (including packing)	568.5 g
Weight per piece (excluding packing)	547 g
Customs tariff number	85444290
Country of origin	DE

Technical data

Product properties

Product type	Distributor box
Area of application	Functional safety
Number of positions	4
Number of slots	4
Coding	A - standard

Insulation characteristics: Air clearances and creepage distances

Overvoltage category	III
Degree of pollution	2

Electrical properties

Max. permissible current	100 mA (per signal output)
Max. permissible total current	100 mA (alarm outputs)
Nominal operating mode	100% operating factor

Air clearances and creepage distances

Rated insulation voltage	50 V DC
Rated surge voltage	0.8 kV

Input data

Nominal input voltage U_N	24 V DC (from PSR)
Input voltage range in reference to U_N	0.8 ... 1.1
Nominal input voltage U_N	24 V DC (from PSR)

Connection data

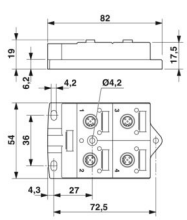
Conductor connection

Sensor/actuator connection system	M12 socket

Signaling

Status display	LED (yellow)
Status display present	yes

Dimensions

Dimensional drawing	
Width	54 mm

Height	82 mm
Depth	19 mm

Material specifications

Color	yellow
Flammability rating according to UL 94	V0
Insulating material	PA 6.6
Housing material	PA
Material of threaded sleeve	PA

Cable/line

Cable length	5 m
Cable type	Master cable suitable for flexible cable conduit
Connection method	Fixed connection
Outside diameter	8.2 mm
Conductor cross-section signal conductor	6x 0.34 mm²
Metric conductor cross-section (Signal)	0.3 mm² ... 0.5 mm²
Cross section AWG (Signal)	22 ... 24
AWG signal line	22
Metric conductor cross-section (Power)	0.75 mm² ... 1 mm²
Cross section AWG (Power)	24 ... 17
AWG power supply	18
Ambient temperature (operation)	-30 °C ... 70 °C (for fixed installation)
	-5 °C ... 70 °C (for flexible installation)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65/IP67
Ambient temperature (operation)	-20 °C ... 70 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C

Standards and regulations

Air clearances and creepage distances

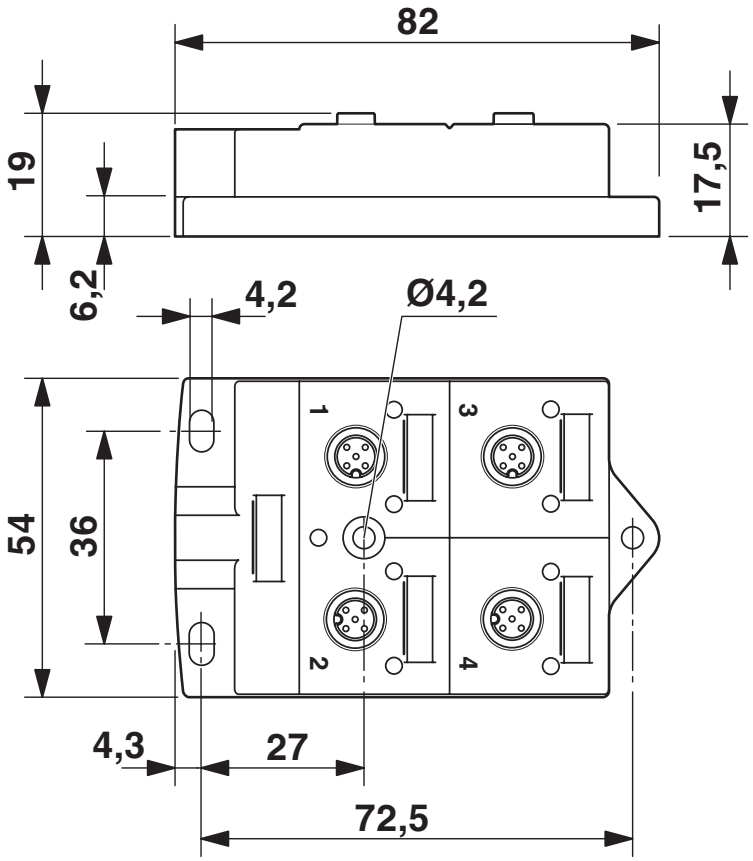
Standards/regulations	DIN EN 50178

Mounting

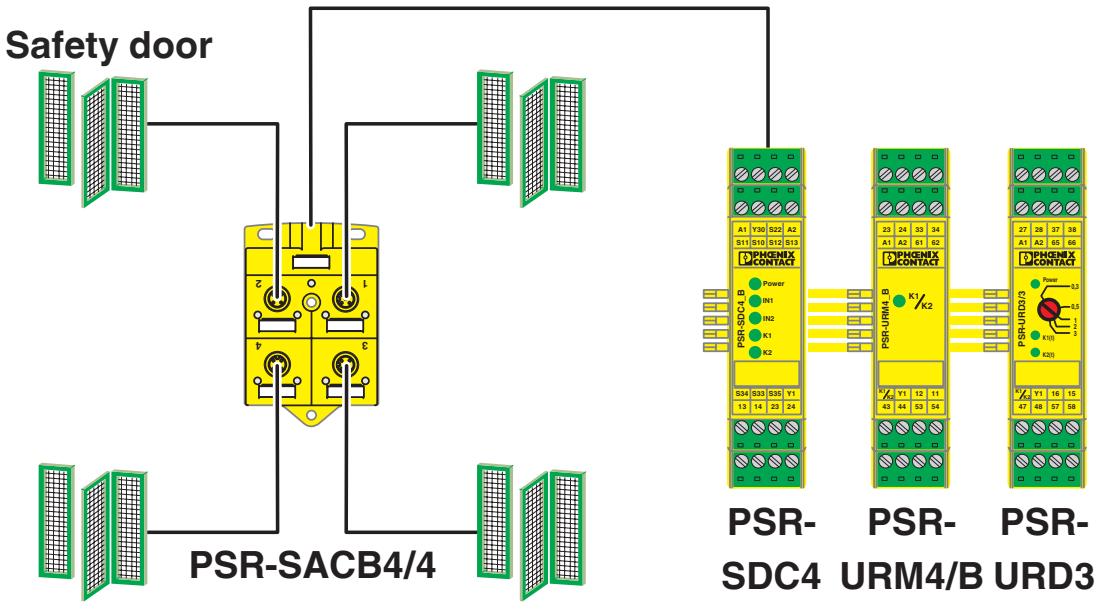
Assembly note	in rows with zero spacing
Mounting position	any

Drawings

Dimensional drawing

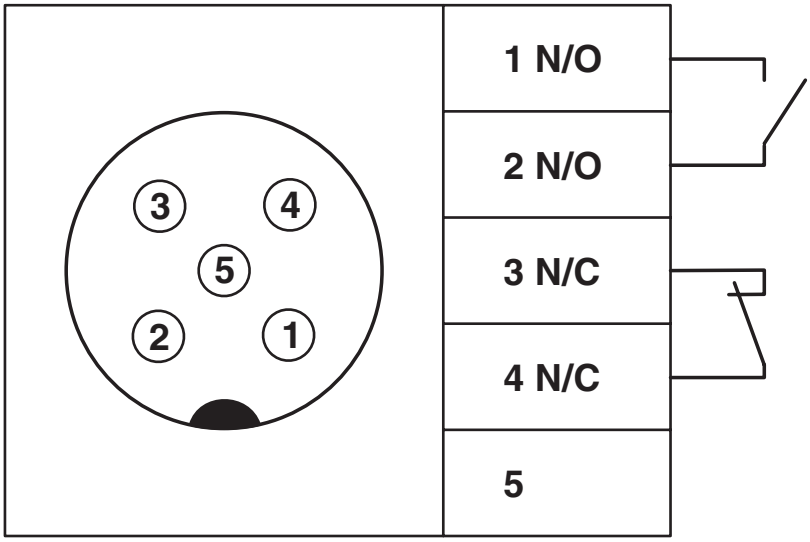


Application drawing



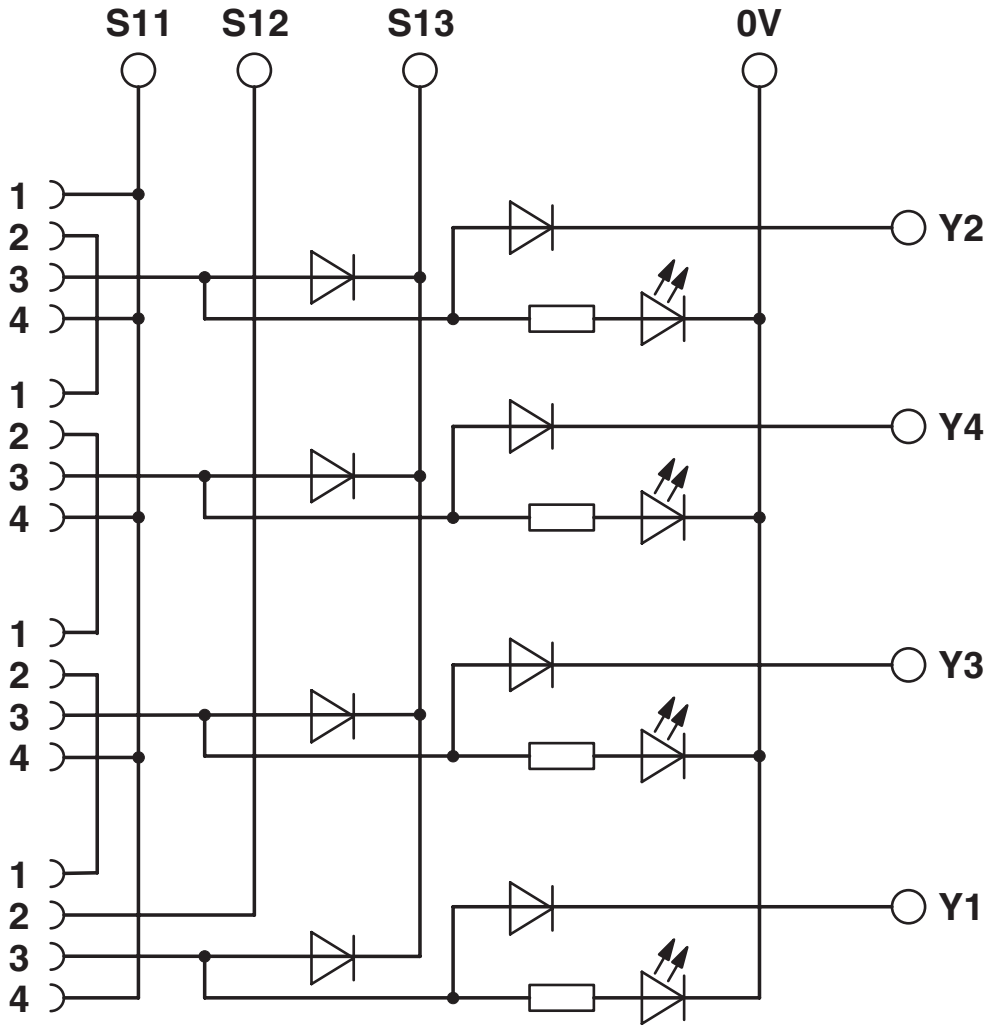
Signals of up to 4 safety door switches can be switched together directly in the field.

Connection diagram



Wiring of the M12 contacts (open safety door)

Block diagram



Block diagram

Classifications

UNSPSC

UNSPSC 21.0	31251500

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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