

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



2981871

<https://www.phoenixcontact.com/us/products/2981871>

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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
Sales key	DN01
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

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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
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Signaling

Status display	LED (yellow)
Status display present	yes

Dimensions

Dimensional drawing	
Width	54 mm

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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 mm ²
Metric conductor cross-section (Signal)	0.3 mm ² ... 0.5 mm ²
Cross section AWG (Signal)	22 ... 24
AWG signal line	22
Conductor cross section voltage supply	2x 0.75 mm ²
Metric conductor cross-section (Power)	0.75 mm ² ... 1 mm ²
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

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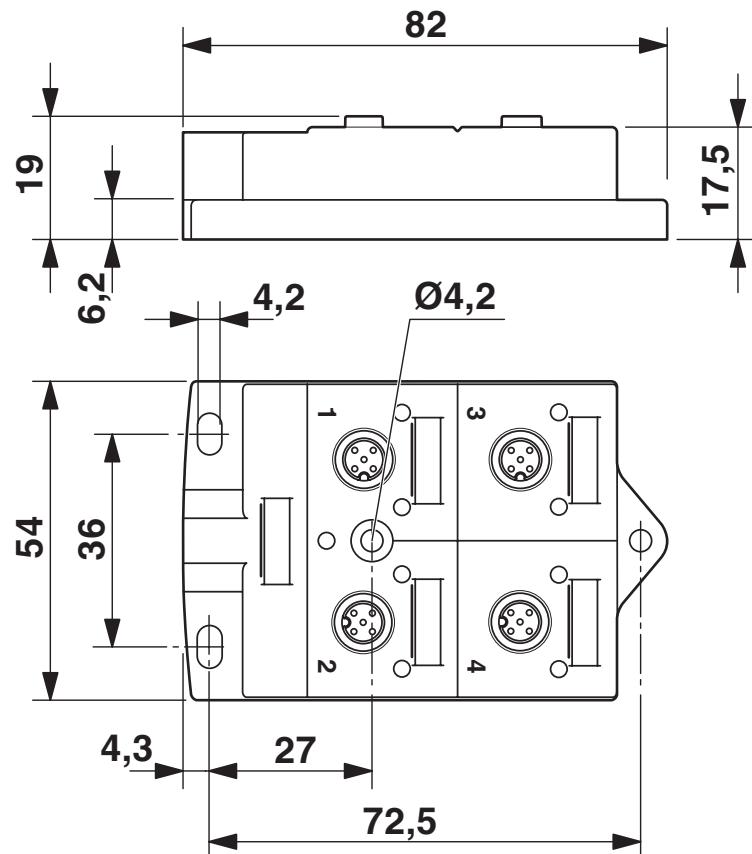


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Drawings

Dimensional drawing



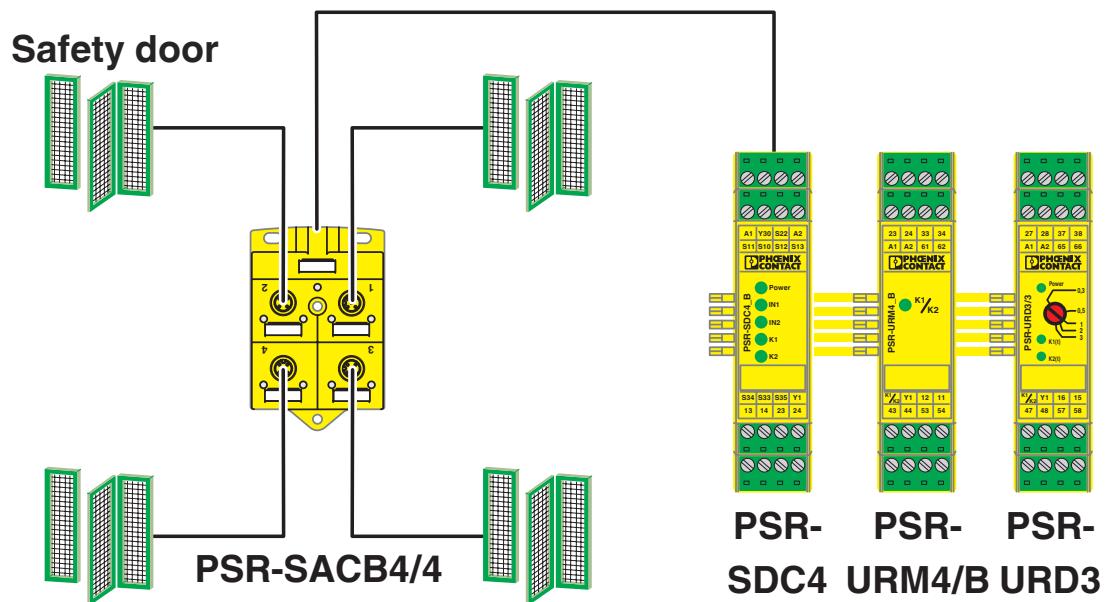
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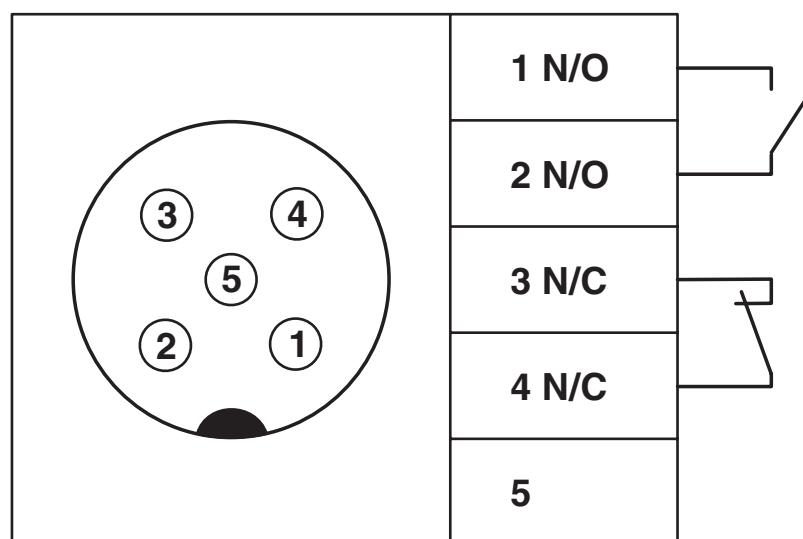


Application drawing



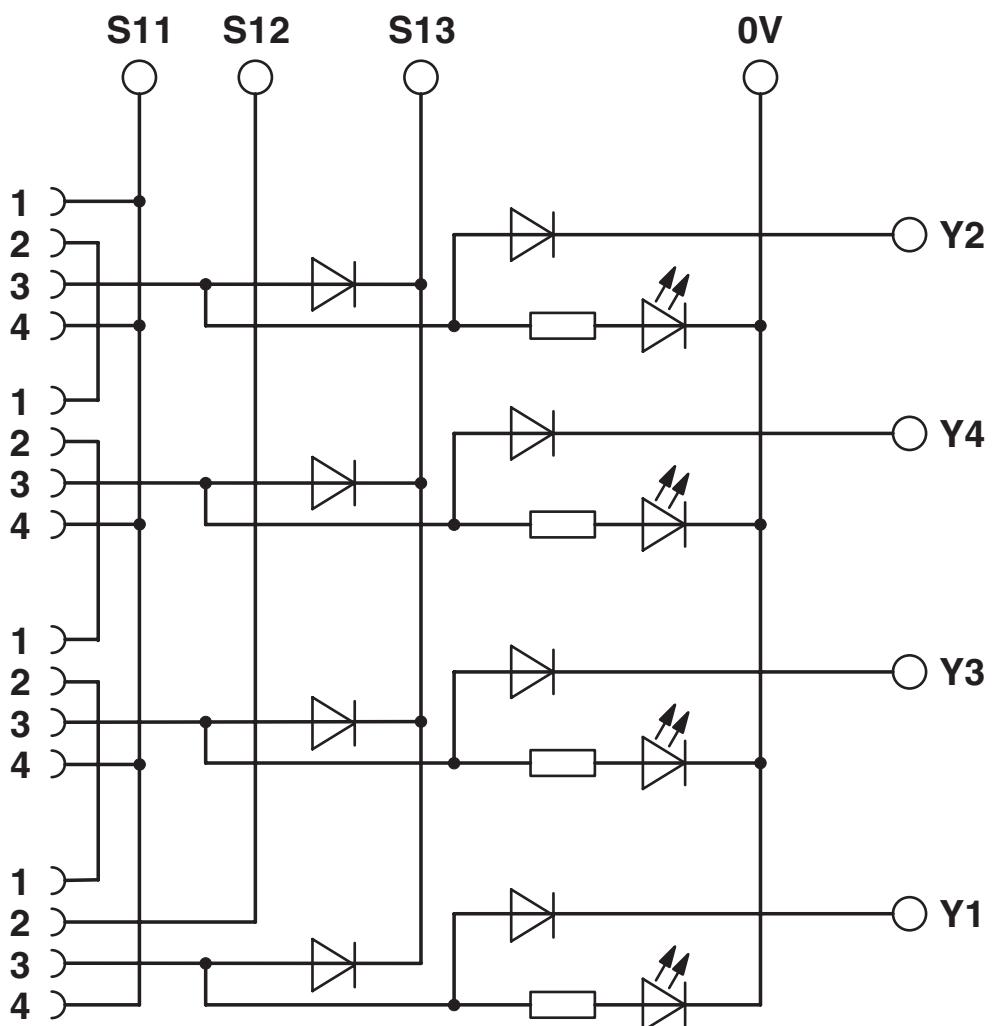
Signals of up to 4 safety door switches can be switched together directly in the field.

Connection diagram



Wiring of the M12 contacts (open safety door)

Block diagram



Block diagram

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Classifications

ETIM

ETIM 8.0

EC002585

UNSPSC

UNSPSC 21.0

31251500

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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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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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