PSR-SPP- 24DC/SIM4 - Safety relays

2981949

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The figure shows a version with a screw connection

Interface module for connecting several safety sensors or switches with N/C / N/O contacts to the PSR-SDC4 safety relay, plug-in Push-in terminal blocks

Your advantages

- 4 two-channel N/O or N/C contact inputs
- Up to Cat. 3/PL d in accordance with EN ISO 13849-1, SIL 2 in accordance with IEC 61508 (in conjunction with the PSR-SDC4 master)
- 4 PLC diagnostic outputs for evaluating the switching state of the safety sensors
- 4 LEDs as status indicators for the relevant sensor/switch
- PSR-TBUS connection

ELEKTROGERÄTE RÜCKNAHME

Commercial data

Item number	2981949
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN01
Product key	DNA221
GTIN	4046356325998
Weight per piece (including packing)	175 g
Weight per piece (excluding packing)	99.99 g
Customs tariff number	85364190
Country of origin	DE

Technical data

Notes

Note on application

Note on application	Only for industrial use

Product properties

Product type	Interface module
Product family	PSRclassic

Insulation characteristics

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
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	0.85 ... 1.1
Nominal input voltage U_N	24 V DC (from PSR)

Connection data

Connection technology

pluggable	yes

Conductor connection

Connection method	Push-in connection
Conductor cross-section rigid	0.2 mm² ... 1.5 mm²
Conductor cross-section flexible	0.2 mm² ... 1.5 mm²
Conductor cross-section, flexible, with ferrule, with plastic sleeve	0.25 mm² ... 1.5 mm² (only together with CRIMPFOX 6)
Conductor cross-section, flexible, with ferrule, without plastic sleeve	0.25 mm² ... 1.5 mm² (only together with CRIMPFOX 6)
Conductor cross-section AWG	24 ... 16
Stripping length	8 mm

Signaling

Status display	LED (green)
Status display present	yes

Dimensions

Width	22.5 mm
Height	117 mm
Depth	106 mm

Material specifications

Color	yellow (RAL 1018)
Housing material	PA

Environmental and real-life conditions

Ambient conditions

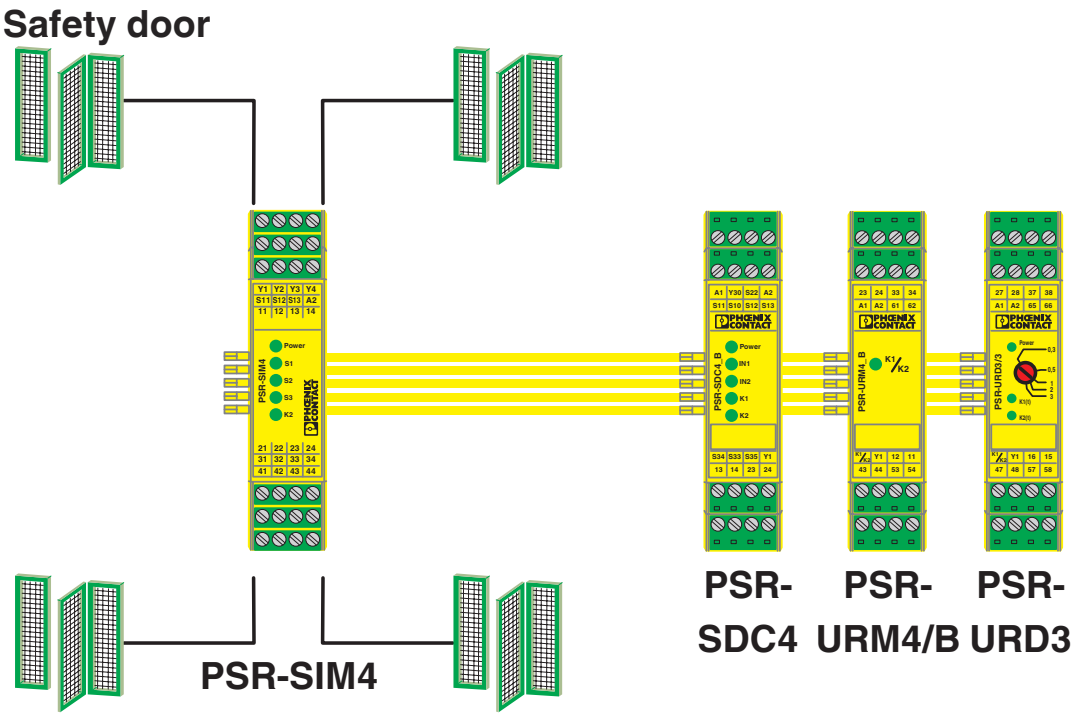
Degree of protection	IP20
Ambient temperature (operation)	-20 °C ... 55 °C
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Maximum altitude	max. 2000 m (Above sea level)

Mounting

Mounting type	DIN rail mounting
Assembly note	in rows with zero spacing
Mounting position	any

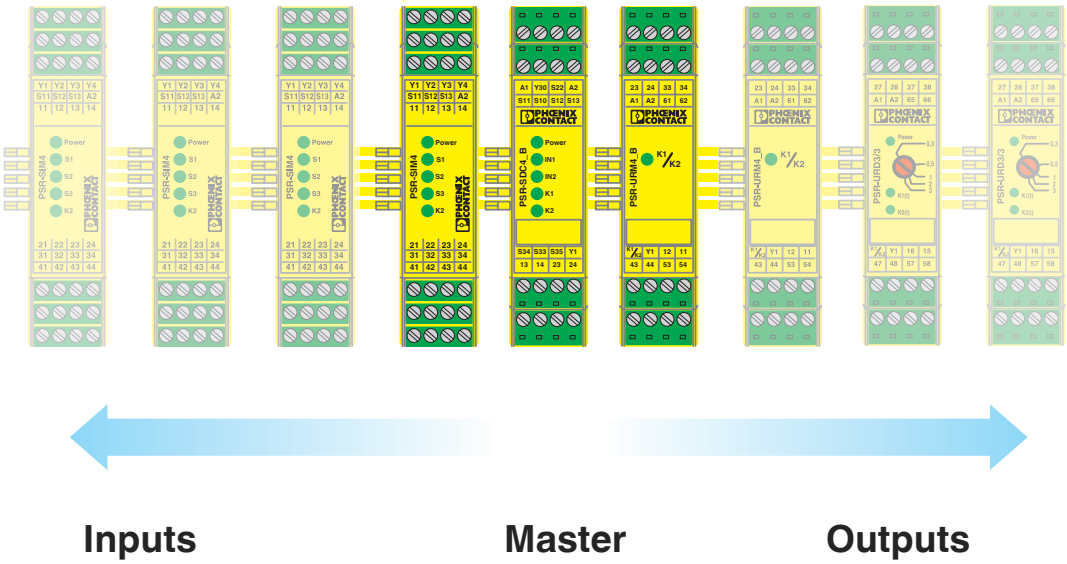
Drawings

Application drawing



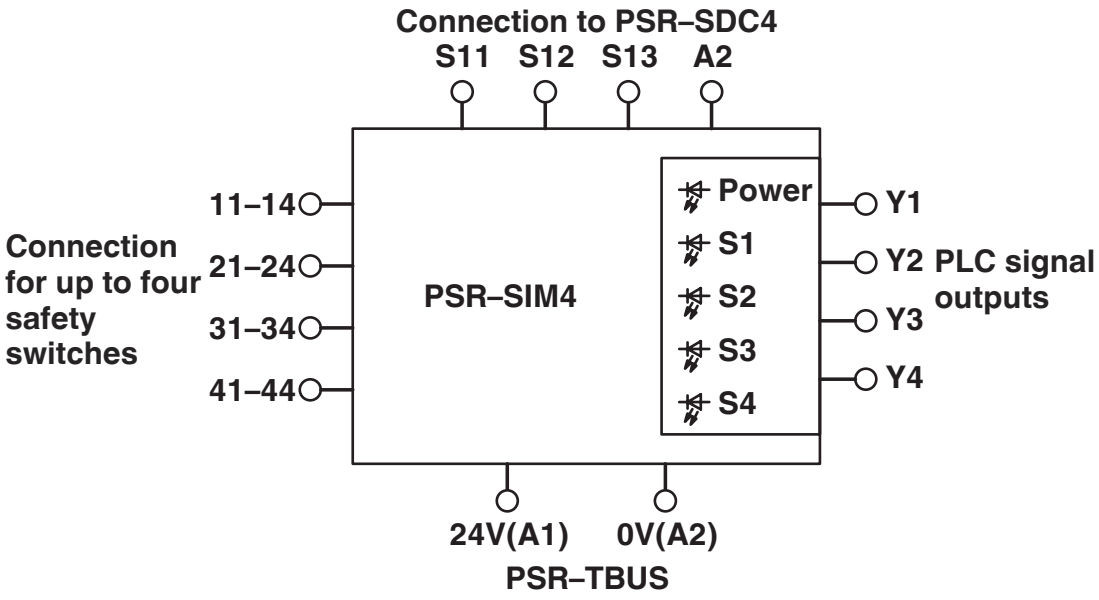
Up to 4 safety door switches can be connected to one PSR-SIM4.

Application drawing



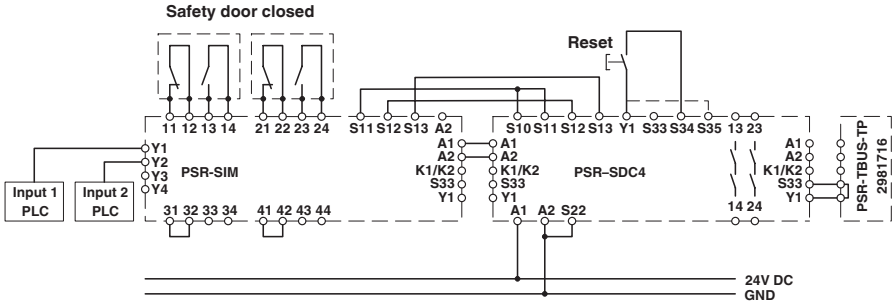
Additional inputs are aligned on the left of the PSR-SDC4, outputs are to its right.

Circuit diagram



Block diagram

Circuit diagram



Contact extension

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2981949

cULus Listed
Approval ID: E140324

Classifications

ECLASS

ECLASS-13.0	27371819
ECLASS-15.0	27371819

ETIM

ETIM 10.0	EC001449

UNSPSC

UNSPSC 21.0	39122200

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

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	02fe4f76-9c2e-4db0-bebb-7a77c349bc39

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