

PSR-SCP- 24DC/SIM4 - Safety relays



2981936
<https://www.phoenixcontact.com/us/products/2981936>

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Interface module for the connection of several safety sensors or switches with NC/NO contacts to the safety relay PSR-SDC4, with screw connection

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

Commercial data

| | |
|--------------------------------------|---------------------|
| Item number | 2981936 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | DN01 |
| Product key | DNA221 |
| Catalog page | Page 233 (C-6-2019) |
| GTIN | 4046356326001 |
| Weight per piece (including packing) | 176 g |
| Weight per piece (excluding packing) | 98 g |
| Customs tariff number | 85364190 |
| Country of origin | DE |

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Technical data

Product properties

| | |
|----------------|------------------|
| Product type | Interface module |
| Product family | PSRclassic |

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 between the power circuits

| | |
|--------------------------|---------|
| 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 |

Connection data

Connection technology

| | |
|-----------|-----|
| pluggable | yes |
|-----------|-----|

Conductor connection

| | |
|----------------------------------|---|
| Connection method | Screw connection |
| Conductor cross section rigid | 0.2 mm ² ... 2.5 mm ² |
| Conductor cross section flexible | 0.2 mm ² ... 2.5 mm ² |
| Conductor cross-section AWG | 24 ... 12 |
| Stripping length | 7 mm |
| Screw thread | M3 |

Signaling

| | |
|------------------------|-----------|
| Status display | Green LED |
| Status display present | Yes |

Dimensions

| | |
|--------|---------|
| Width | 22.5 mm |
| Height | 99 mm |
| Depth | 106 mm |

Material specifications

| | |
|------------------|-----------|
| Housing material | Polyamide |
|------------------|-----------|

Environmental and real-life conditions

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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) |

Standards and regulations

Air clearances and creepage distances between the power circuits

| | |
|-----------------------|--------------|
| Standards/regulations | DIN EN 50178 |
|-----------------------|--------------|

Mounting

| | |
|-----------------------|---------------------------|
| Assembly instructions | in rows with zero spacing |
| Mounting position | any |

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-11.0 | 27371819 |
| ECLASS-12.0 | 27371819 |
| ECLASS-13.0 | 27371819 |

ETIM

| | |
|----------|----------|
| ETIM 9.0 | EC001449 |
|----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 39122200 |
|-------------|----------|

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Environmental product compliance

| | |
|------------|--|
| REACH SVHC | Lead 7439-92-1 |
| China RoHS | Environmentally Friendly Use Period = 50 years |
| | For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads" |

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