

# PSR-M-EF6-SDOR4-PI - Extension module



1104983

<https://www.phoenixcontact.com/us/products/1104983>

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Safe extension module with 4 safe relay outputs, 4 reset inputs, TBUS interface, up to SIL 3, Cat. 4/PL e, pluggable Push-in terminal block, TBUS connector included

## Product description

The configurable and individually scalable PSRmodular safety system is a flexible safety solution for monitoring your machine or system. The safe extension module provides the system with additional safe relay outputs.

## Your advantages

- Cost-effective safety solution with a high level of adaptability to individual requirements
- Fast startup, thanks to easy hardware and software configuration
- Machine downtimes minimized with comprehensive, easy-to-understand diagnostics
- Tool-free and time-saving installation thanks to Push-in technology
- Low housing width of just 22.6 mm
- Up to Cat. 4/PL e in accordance with ISO 13849-1, SIL 3 in accordance with EN IEC 62061, SIL 3 in accordance with IEC 61508
- Suitable for elevator applications in accordance with EN 81-20

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1104983       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | DN02          |
| Product key                          | DNA362        |
| GTIN                                 | 4055626973425 |
| Weight per piece (including packing) | 226 g         |
| Weight per piece (excluding packing) | 192 g         |
| Customs tariff number                | 85371098      |
| Country of origin                    | IT            |

## Technical data

### Notes

#### Note on application

|                     |                         |
|---------------------|-------------------------|
| Note on application | Only for industrial use |
|---------------------|-------------------------|

### Product properties

|              |                 |
|--------------|-----------------|
| Product type | Safety device   |
| Application  | Safe shutdown   |
| Control      | 1 and 2 channel |

#### Insulation characteristics

|                  |     |
|------------------|-----|
| Protection class | III |
|------------------|-----|

#### Insulation characteristics

|                      |    |
|----------------------|----|
| Overtoltage category | II |
| Degree of pollution  | 2  |

#### Times

|               |                       |
|---------------|-----------------------|
| Response time | see user manual       |
| Restart time  | min. 5 s (Boot time)  |
|               | max. 10 s (Boot time) |

### Electrical properties

|   |   |
|---|---|
| Maximum power dissipation for nominal condition | 7.07 W  |
| Nominal operating mode                          | 100% operating factor   |
| Interfaces                                      | DIN rail TBUS for connection to the master module, supplied as standard |
| Rated surge voltage/insulation                  | Basic insulation 4 kV between all current paths and housing             |

#### Supply

|  |  |
|--|--|
| Designation                                | A1/A2  |
| Rated control circuit supply voltage $U_S$ | 19.2 V DC ... 28.8 V DC                                  |
| Rated control circuit supply voltage $U_S$ | 24 V DC -20 % / +20 % (external fuse, typically 4 A)     |
| Rated control supply current $I_S$         | typ. 120 mA  |
| Power consumption at $U_S$                 | typ. 2.88 W  |
| Inrush current                             | 2 A ( $\Delta t = 1$ ms at $U_S$ )                       |
| Filter time                                | typ. 5 ms (at A1 in the event of voltage dips at $U_S$ ) |
| Protective circuit                         | Serial protection against polarity reversal              |

### Input data

#### Digital: Reset inputs (FBK1, FBK2, FBK3, FBK4)

|                                |                    |
|--------------------------------|--------------------|
| Description of the input       | IEC 61131-2 Type 2 |
| Number of inputs               | 4                  |
| Input voltage range "0" signal | 0 V DC ... 5 V DC  |

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|   |  |
|---|--|
| Input voltage range "1" signal                | 11 V DC ... 28.8 V DC  |
| Input current range "0" signal                | < 1 mA   |
| Filter time                                   | 250 ms ±2 ms (Test pulse rate > 500 ms)  |
| Cable length                                  | max. 100 m (per input)   |
| Max. permissible overall conductor resistance | 1.2 kΩ (Input and reset circuit at U <sub>S</sub> )                                      |
| Current consumption                           | typ. 10 mA (typ. with U <sub>S</sub> )<br>max. 13 mA (at a control voltage of 28.8 V DC) |

## Output data

Relay: Enabling current paths (13\_NO1/14\_NO1, 23\_NO2/24\_NO2, 33\_NO3/34\_NO3, 43\_NO4/44\_NO4)

|                             |   |
|-----------------------------|---|
| Output description          | safety-related N/O contacts   |
| Number of outputs           | 4 (1 NO per output)   |
| Contact switching type      | 4 safe outputs  |
| Switching voltage           | min. 10 V AC/DC<br>max. 250 V AC/DC (Observe the load curve)  |
| Switching power             | min. 200 mW   |
| Inrush current              | min. 20 mA<br>max. 6 A  |
| Switching capacity          | 3 A (250 V (AC15))<br>2 A (24 V (DC13))   |
| Limiting continuous current | 4 A (observe derating)  |
| Sq. Total current           | 64 A <sup>2</sup> (with 4 x 1-channel, observe derating)<br>32 A <sup>2</sup> (for 2 x 2-channel, observe derating) |
| Switching frequency         | 0.5 Hz  |
| Mechanical service life     | 40x 10 <sup>6</sup> switching cycles  |
| Output fuse                 | 4 A gL/gG   |

## Connection data

Connection technology

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

Conductor connection

|                                  |   |
|----------------------------------|---|
| Connection method                | Push-in connection                          |
| Conductor cross-section rigid    | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross-section flexible | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross-section AWG      | 24 ... 14                                   |
| Stripping length                 | 10 mm                                       |

## Signaling

|                           |   |
|---------------------------|---|
| Status display            | 4 x LED (yellow)<br>4 x LED (green, red)<br>1 x LED (green), 2 x LED (orange) |
| Operating voltage display | 1 x LED (green)   |
| Error indication          | 2 x LED (red)   |

## Dimensions

|        |           |
|--------|-----------|
| Width  | 22.61 mm  |
| Height | 107.74 mm |
| Depth  | 113.6 mm  |

## Material specifications

|                  |                             |
|------------------|-----------------------------|
| Color (Housing)  | yellow (RAL 1018)           |
| Housing material | Polyamide PA non-reinforced |

## Characteristics

### Safety data

|                            |   |
|----------------------------|---|
| Stop category (EN 60204-1) | 0 |
|----------------------------|---|

### Safety data: EN ISO 13849

|                        |                      |
|------------------------|----------------------|
| Performance level (PL) | e (2-channel wiring) |
|                        | c (1-channel wiring) |

### Safety data: IEC 61508 - High-demand for 2-channel wiring

|                              |   |
|------------------------------|---|
| Safety Integrity Level (SIL) | 3 |
|------------------------------|---|

### Safety data: IEC 61508 - High-demand for 1-channel wiring

|                              |   |
|------------------------------|---|
| Safety Integrity Level (SIL) | 1 |
|------------------------------|---|

### Safety data: EN IEC 62061

|                              |                      |
|------------------------------|----------------------|
| Safety Integrity Level (SIL) | 3 (2-channel wiring) |
|                              | 1 (1-channel wiring) |

## Environmental and real-life conditions

### Ambient conditions

|  |  |
|--|--|
| Degree of protection                           | IP20   |
| Min. degree of protection of inst. location    | IP54   |
| Ambient temperature (operation)                | -10 °C ... 55 °C (observe derating)  |
| Ambient temperature (storage/transport)        | -20 °C ... 85 °C   |
| Maximum altitude                               | ≤ 2000 m (Above sea level)   |
| Max. permissible humidity (storage/transport)  | 95 % (non-condensing)  |
| Max. permissible relative humidity (operation) | 95 % (non-condensing)  |
| Shock  | 10g for $\Delta t = 16$ ms (continuous shock, 1000 shocks in each space direction) |
| Vibration (operation)                          | 10 Hz ... 150 Hz, amplitude 0.15 mm, 2g  |

## Approvals

### CE

|                |              |
|----------------|--------------|
| Identification | CE-compliant |
|----------------|--------------|

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## Mounting

|                   |                        |
|-------------------|------------------------|
| Mounting type     | DIN rail mounting      |
| Assembly note     | Observe derating       |
| Mounting position | vertical or horizontal |

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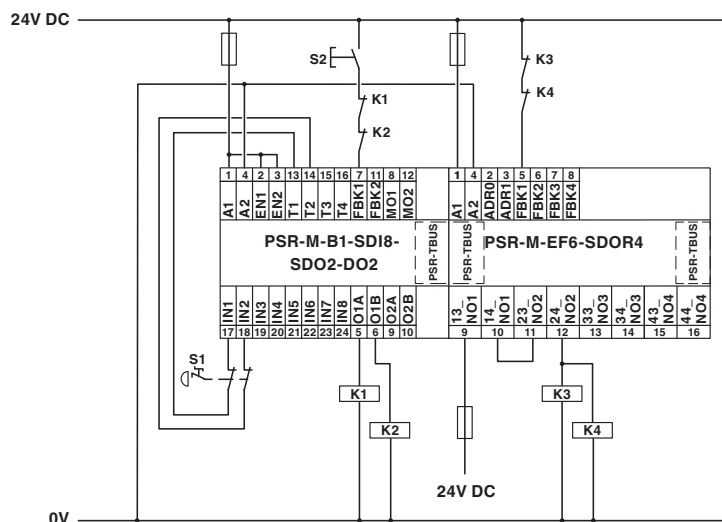


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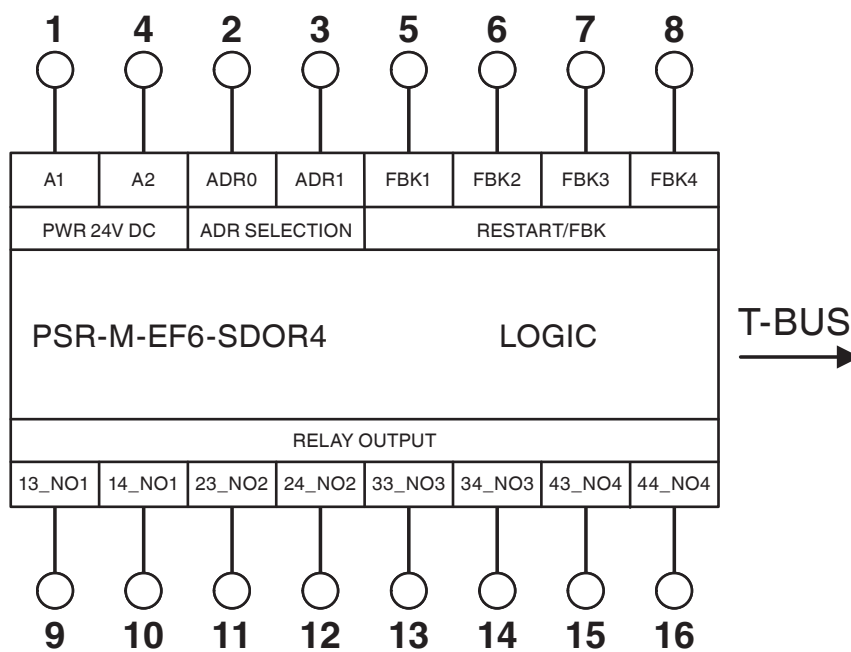
## Drawings

Application drawing



## Example application

Block diagram



## Block diagram

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## Approvals

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**cULus Listed**

Approval ID: E238705



**Functional Safety**

Approval ID: Z10029429 0013Rev.02

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## Classifications

### ECLASS

|                   |          |
|-------------------|----------|
| ECLASS-13.0       | 27371819 |
| ECLASS-15.0       | 27371819 |
| ECLASS-15.0 ASSET | 27250101 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC001449 |
|-----------|----------|

### UNSPSC

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

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## 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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