

# PSR-M-E1-DO8-SC - Extension module

1105132

<https://www.phoenixcontact.com/us/products/1105132>



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Extension module with 8 signal outputs, TBUS interface, plug-in screw 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 extension module provides the system with additional signal 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
- Narrow housing width of just 22.6 mm

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1105132       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | DN02          |
| Product key                          | DNA364        |
| GTIN                                 | 4055626975191 |
| Weight per piece (including packing) | 170.1 g       |
| Weight per piece (excluding packing) | 138 g         |
| Customs tariff number                | 85371098      |
| Country of origin                    | IT            |

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## Technical data

### Product properties

|              |                  |
|--------------|------------------|
| Product type | Coupling relay   |
| Application  | Extension module |

### Insulation characteristics

|                  |                |
|------------------|----------------|
| Protection class | III (EN 50178) |
|------------------|----------------|

### 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 | 1.82 W (with max. permissible load)                                     |
| Nominal operating mode                          | 100% operating factor   |
| Interfaces                                      | DIN rail TBUS for connection to the master module, supplied as standard |

### Air clearances and creepage distances between the power circuits

|                                |   |
|--------------------------------|---|
| Rated insulation voltage       | 250 V AC  |
| 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. 20 mA   |
| Power consumption at $U_S$                 | typ. 0.48 W  |
| Inrush current                             | 1.5 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              |
|  | Suppressor diode   |

### Supply

|  |   |
|--|---|
| Designation                                | 24V/A2  |
| Rated control circuit supply voltage $U_S$ | 24 V DC -20 % / +20 % (external fuse, typically 4 A)  |
| Rated control supply current $I_S$         | typ. 20 mA (Outputs active, without load)             |
| Inrush current                             | 2 A ( $\Delta t = 1$ ms at $U_S$ )                    |
| Filter time                                | typ. 1 ms (in the event of voltage dips)              |
| Protective circuit                         | Inverse-parallel protection against polarity reversal |
|  | Suppressor diode                                      |

### Output data

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Signal: MO1, MO2, MO3, MO4, MO5, MO6, MO7, MO8

|                                  |  |
|----------------------------------|--|
| Output description               | PNP, IEC 61131-2 Typ 0,1<br>non-safety-related<br>Reference ground A2        |
| Number of outputs                | 8  |
| Output voltage when switched off | max. 0.1 V   |
| Voltage                          | 24 V DC (via 24 V)   |
| Maximum inrush current           | 1.1 A ( $\Delta t = 3 \text{ s}$ at $U_s$ )                                  |
| Limiting continuous current      | 100 mA (per channel)<br>400 mA (Total current of all digital signal outputs) |
| Leakage current                  | max. 100 $\mu\text{A}$   |
| Switching frequency              | max. $1/4 \times t_{\text{Cycle}}$ [Hz]                                      |
| Protective circuit               | Suppressor diode   |
| Short-circuit protection         | Yes (self-limitation at 1.1 A)   |
| Cable length                     | max. 100 m (per output)  |

## Connection data

Connection technology

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

Conductor connection

|                                  |   |
|----------------------------------|---|
| Connection method                | Screw 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 ... 12                                   |
| Stripping length                 | 7 mm  |
| Screw thread                     | M3  |
| Tightening torque                | 0.5 Nm ... 0.6 Nm                           |

## Signaling

|                           |   |
|---------------------------|---|
| Status display            | 1 x LED (green), 2 x LED (orange)<br>8 x LED (yellow) |
| Operating voltage display | 1 x green LED   |
| Error indication          | 2 x LED (red)   |

## Dimensions

|        |           |
|--------|-----------|
| Width  | 22.61 mm  |
| Height | 112.58 mm |
| Depth  | 113.6 mm  |

## Material specifications

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

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## 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, 2g   |

## Standards and regulations

Air clearances and creepage distances between the power circuits

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

## Mounting

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

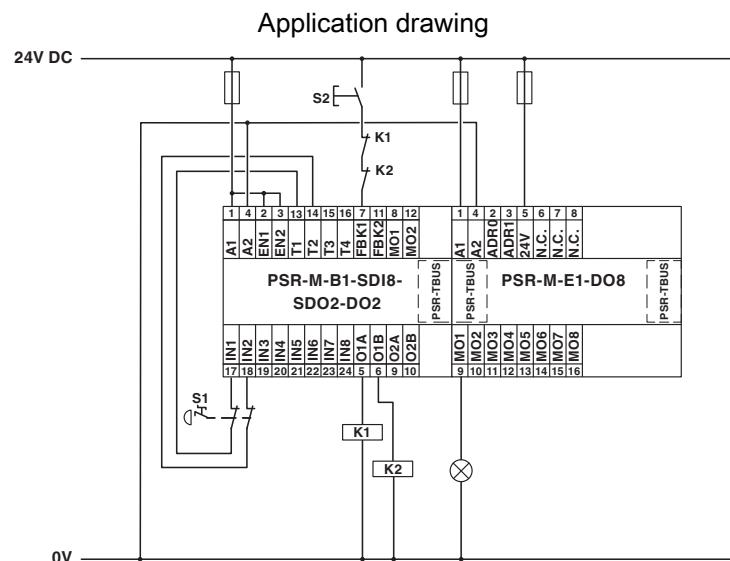
# PSR-M-E1-DO8-SC - Extension module



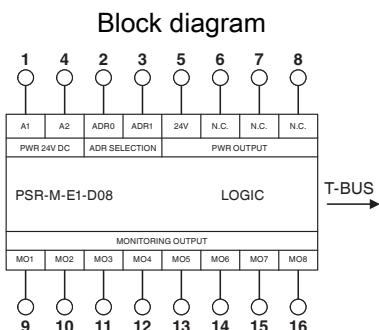
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## Drawings



Example application



Block diagram

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## Approvals

ⓘ To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1105132>



**UL Listed**

Approval ID: FILE E 238705



**cUL Listed**

Approval ID: FILE E 238705



**EAC**

Approval ID: RU\*-DE\*B.00606/20



**Functional Safety**

Approval ID: Z10 029429 0013

**cULus Listed**

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## Classifications

### ECLASS

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

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | 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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## Accessories

### CP-MSTB - Coding profile

1734634

<https://www.phoenixcontact.com/us/products/1734634>

Coding profile, is inserted into the slot on the plug or inverted header, red insulating material



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### CR-MSTB - Coding section

1734401

<https://www.phoenixcontact.com/us/products/1734401>

Coding section, inserted into the recess in the header or the inverted plug, red insulating material



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## CRIMPFOX 6 - Crimping pliers

1212034

<https://www.phoenixcontact.com/us/products/1212034>

Crimping pliers, for ferrules without insulating collar according to DIN 46228 Part 1 and ferrules with insulating collar according to DIN 46228 Part 4, 0.25 mm<sup>2</sup> ... 6.0 mm<sup>2</sup>, lateral entry, trapezoidal crimp



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