

# PSR-M-GW-PB-SC - Data interface



1105099

<https://www.phoenixcontact.com/us/products/1105099>

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Gateway for connecting a PSR-M base module to a higher-level controller, PROFIBUS DP, 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. PSRmodular gateways connect a PSR-M basic module to a higher-level controller. This gateway is designed for use with PROFIBUS.

## 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
- Low housing width of just 22.6 mm



## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1105099       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | DN02          |
| Product key                          | DNA365        |
| GTIN                                 | 4055626973371 |
| Weight per piece (including packing) | 175.7 g       |
| Weight per piece (excluding packing) | 160 g         |
| Customs tariff number                | 85371098      |

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|                   |    |
|-------------------|----|
| Country of origin | IT |
|-------------------|----|

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## Technical data

### Notes

#### Note on application

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

### Product properties

|              |                  |
|--------------|------------------|
| Product type | Gateways/Proxies |
|--------------|------------------|

#### Insulation characteristics

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

#### Insulation characteristics

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

### Electrical properties

|   |   |
|---|---|
| Maximum power dissipation for nominal condition | 1.44 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   |

### 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. 60 mA  |
| Power consumption at $U_S$                 | typ. 1.44 W   |
| Inrush current                             | < 2.2 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<br>Suppressor diode |

### Connection data

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

### Interfaces

#### Data: Network interface

|                        |                          |
|------------------------|--------------------------|
| Communication protocol | PROFIBUS DP              |
| Communication standard | IEC 61158, RS-485 2-wire |

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|                       |                          |
|-----------------------|--------------------------|
| Connection method     | D-SUB-9 female connector |
| Number of connections | 1                        |
| Transmission speed    | 12 Mbps                  |

## Data: Service interface

|                       |                  |
|-----------------------|------------------|
| Connection method     | USB 2.0 Hi-Speed |
| Number of connections | 1                |
| Maximum cable length  | 3 m              |

## Signaling

|                           |                                       |
|---------------------------|---------------------------------------|
| Status display            | 1 x LED (green), 2 x LED (green, red) |
| Operating voltage display | 1 x LED (green)                       |
| Error indication          | 2 x LED (red)                         |

## Dimensions

|        |           |
|--------|-----------|
| Width  | 22.61 mm  |
| Height | 112.58 mm |
| Depth  | 114.75 mm |

## Material specifications

|                  |                             |
|------------------|-----------------------------|
| Color (Housing)  | gray (RAL 7042)             |
| Housing material | Polyamide PA non-reinforced |

## 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   |

## Approvals

### CE

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

## Mounting

|                   |                        |
|-------------------|------------------------|
| Mounting type     | DIN rail mounting      |
| Mounting position | vertical or horizontal |

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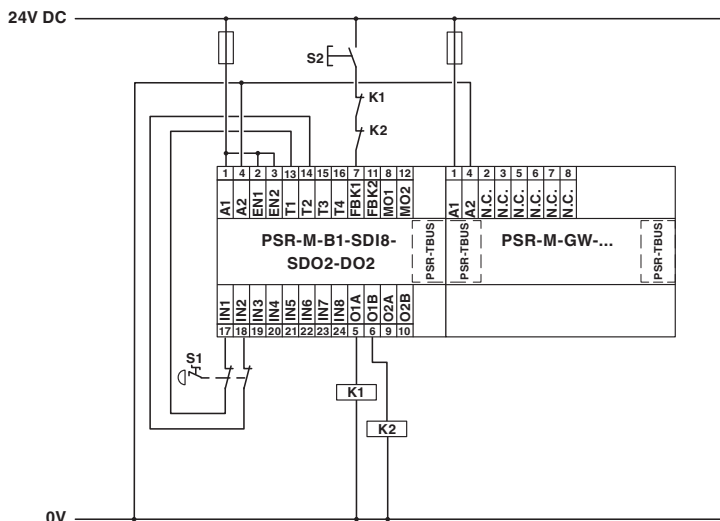


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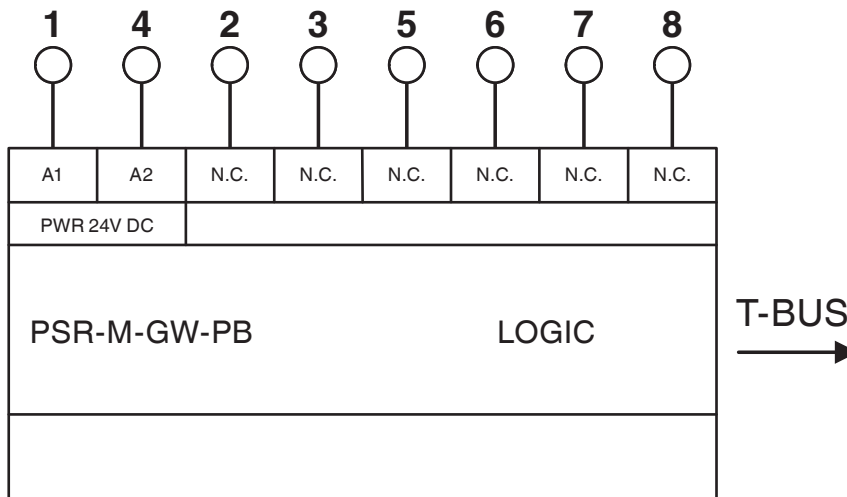
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## Drawings

Application drawing



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 | 27242608 |
| ECLASS-15.0 | 27242608 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC001604 |
|-----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 32151600 |
|-------------|----------|

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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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