

# PSR-M-GW-CAN-PI - Data interface



1105105

<https://www.phoenixcontact.com/us/products/1105105>

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Gateway for connecting a PSR-M base module to a higher-level controller, CANopen<sup>®</sup>, TBUS interface, plug-in 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. PSRmodular gateways connect a PSR-M basic module to a higher-level controller. This gateway is intended for use with CANopen<sup>®</sup>.

## 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
- Tool-free and time-saving installation thanks to Push-in technology

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1105105       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | DN02          |
| Product key                          | DNA365        |
| GTIN                                 | 4055626971087 |
| Weight per piece (including packing) | 164 g         |
| Weight per piece (excluding packing) | 125 g         |
| Customs tariff number                | 85371098      |
| Country of origin                    | IT            |

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## Technical data

### Product properties

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

### Insulation characteristics

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

### Electrical properties

|   |   |
|---|---|
| Maximum power dissipation for nominal condition | 1 W   |
| 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 |

### 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. 35 mA (without network connection)              |
|  | typ. 40 mA (with network connection)                 |
| Power consumption at $U_S$                 | typ. 1 W (with network connection)                   |
| Inrush current                             | < 2.2 A ( $\Delta t = 1$ ms at $U_S$ )               |
| Filter time                                | typ. 5 ms (in the event of voltage dips at $U_S$ )   |
| Protective circuit                         | Serial protection against polarity reversal          |
|  | Suppressor diode                                     |

### Connection data

|                   |                    |
|-------------------|--------------------|
| Connection method | Push-in connection |
| Stripping length  | 10 mm              |

### Interfaces

#### Data: Network interface

|                        |                          |
|------------------------|--------------------------|
| Communication protocol | CANopen <sup>®</sup>     |
| Connection method      | D-SUB-9 female connector |
| Number of connections  | 1                        |
| Transmission speed     | 1 Mbps                   |

#### Data: Service interface

|                       |                  |
|-----------------------|------------------|
| Connection method     | USB 2.0 Hi-Speed |
| Number of connections | 1                |

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## Signaling

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

## Dimensions

|        |           |
|--------|-----------|
| Width  | 22.61 mm  |
| Height | 107.74 mm |
| Depth  | 115.95 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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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27242608 |
| ECLASS-12.0 | 27242608 |
| ECLASS-13.0 | 27242608 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC001604 |
|----------|----------|

### UNSPSC

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

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## Environmental product compliance

|            |   |
|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|            | No hazardous substances above threshold values          |

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