

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



1105103

<https://www.phoenixcontact.com/us/products/1105103>

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Gateway for connecting a PSR-M base module to a higher-level controller, DeviceNet™, 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 intended for use with DeviceNet™.

## 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                          | 1105103       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | DN02          |
| Product key                          | DNA365        |
| GTIN                                 | 4055626973197 |
| Weight per piece (including packing) | 172 g         |
| Weight per piece (excluding packing) | 131 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               | Gateways/Proxies |
| Data management status     |                  |
| Article revision           | 01               |
| Insulation characteristics |                  |
| Protection class           | III (EN 50178)   |

### Electrical properties

|                                                 |                                                                         |
|-------------------------------------------------|-------------------------------------------------------------------------|
| Maximum power dissipation for nominal condition | 1.75 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. 30 mA (at $U_S$ )                                          |
| Power consumption at $U_S$                 | typ. 0.75 W                                                     |
| 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<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 | DeviceNet™ |
|------------------------|------------|

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|                          |                       |
|--------------------------|-----------------------|
| Connection method        | Connector             |
| Number of connections    | 1                     |
| Transmission speed       | max. 500 kbps         |
| Transmission speed range | 125 kbps ... 500 kbps |

## Data: Service interface

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

## Signaling

|                           |                                       |
|---------------------------|---------------------------------------|
| Status display            | 1 x LED (green), 2 x LED (green, red) |
| 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)  | 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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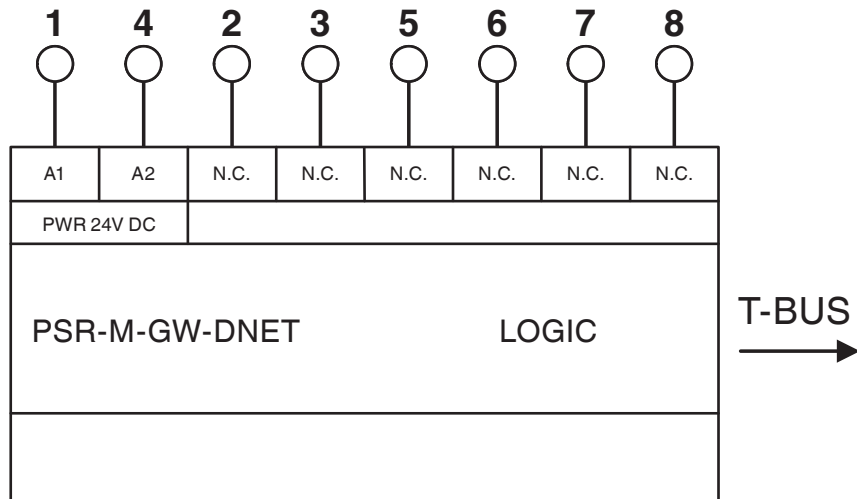
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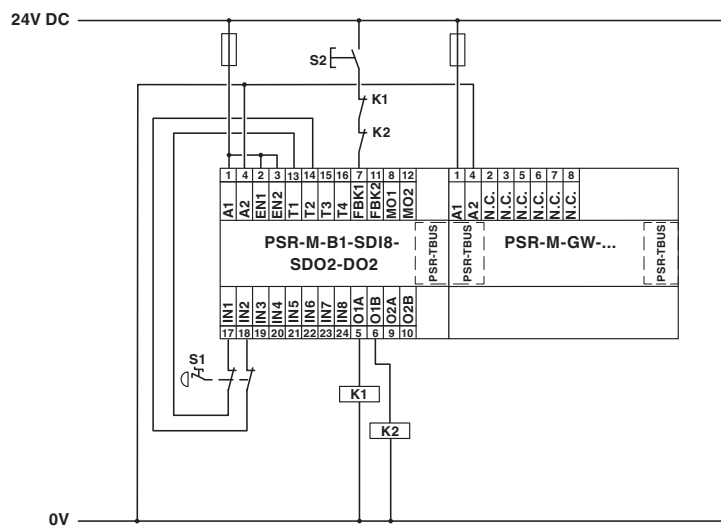


## Drawings

### Block diagram



## Application drawing



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1105103>



**UL Listed**  
Approval ID: E238705



**cUL Listed**  
Approval ID: E238705



**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 | 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

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

### PSR-M-B1-SDI8-SDO2-DO2-SC - Safety module

1104981

<https://www.phoenixcontact.com/us/products/1104981>



Configurable safety module (basic module), 8 safe inputs, 2 safe outputs, 2 reset inputs, 2 signal outputs, 4 clock outputs, can be extended via TBUS, up to SIL 3, Cat. 4/PL e, plug-in screw terminal block, TBUS connector not included

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### PSR-M-B1-SDI8-SDO2-DO2-PI - Safety module

1104972

<https://www.phoenixcontact.com/us/products/1104972>



Configurable safety module (basic module), 8 safe inputs, 2 safe outputs, 2 reset inputs, 2 signal outputs, 4 clock outputs, can be extended via TBUS, up to SIL 3, Cat. 4/PL e, plug-in Push-in terminal block, TBUS connector not included



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## PSR-M-B2-SDI8-SDO4-DO4-SC - Safety module

1104974

<https://www.phoenixcontact.com/us/products/1104974>



Configurable safety module (basic module), 8 safe inputs, 4 safe outputs, 4 reset inputs or 4 signal outputs, 4 clock outputs, can be extended via TBUS, up to SIL 3, Cat. 4/PL e, plug-in screw terminal block, TBUS connector not included

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## PSR-M-B2-SDI8-SDO4-DO4-PI - Safety module

1104975

<https://www.phoenixcontact.com/us/products/1104975>



Configurable safety module (basic module), 8 safe inputs, 4 safe outputs, 4 reset inputs or 4 signal outputs, 4 clock outputs, can be extended via TBUS, up to SIL 3, Cat. 4/PL e, plug-in Push-in terminal block, TBUS connector not included

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## CABLE-USB/MINI-USB-3,0M - USB cable

2986135

<https://www.phoenixcontact.com/us/products/2986135>

USB connecting cable: USB plug type A to USB plug type Mini-B; length: 3 m



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## 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

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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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## EBP 2- 5 - Insertion bridge

1733169

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Insertion bridge for connectors with 5.0 mm or 5.08 mm pitch



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