

PSR-M-GW-PB-PI - Data interface



1105100

<https://www.phoenixcontact.com/us/products/1105100>

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Gateway for connecting a PSR-M base module to a higher-level controller, PROFIBUS DP, TBUS interface, 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. 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
- Tool-free and time-saving installation thanks to Push-in technology



Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1105100 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | DN02 |
| Product key | DNA365 |
| GTIN | 4055626974989 |
| Weight per piece (including packing) | 165.2 g |
| Weight per piece (excluding packing) | 125 g |

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| | |
|-----------------------|----------|
| Customs tariff number | 85371098 |
| 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 Suppressor diode |

Connection data

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

Interfaces

Data: Network interface

| | |
|------------------------|--------------------------|
| Communication protocol | PROFIBUS DP |
| Communication standard | IEC 61158, RS-485 2-wire |
| Connection method | D-SUB-9 female connector |
| Number of connections | 1 |

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| | |
|--------------------|---------|
| 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 | 107.74 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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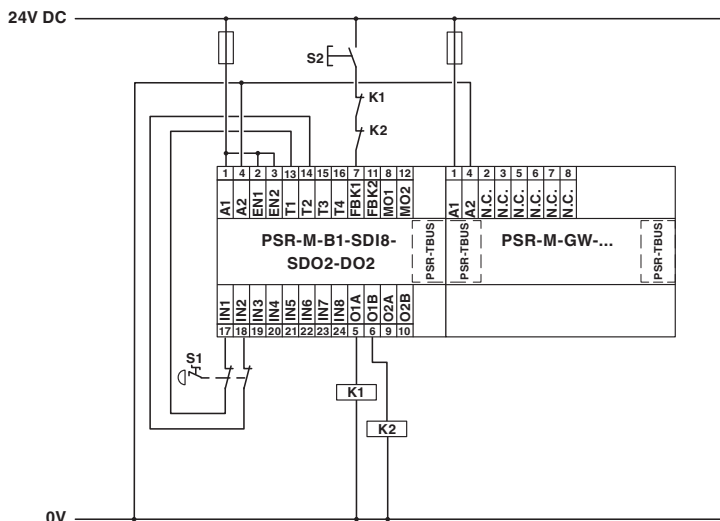


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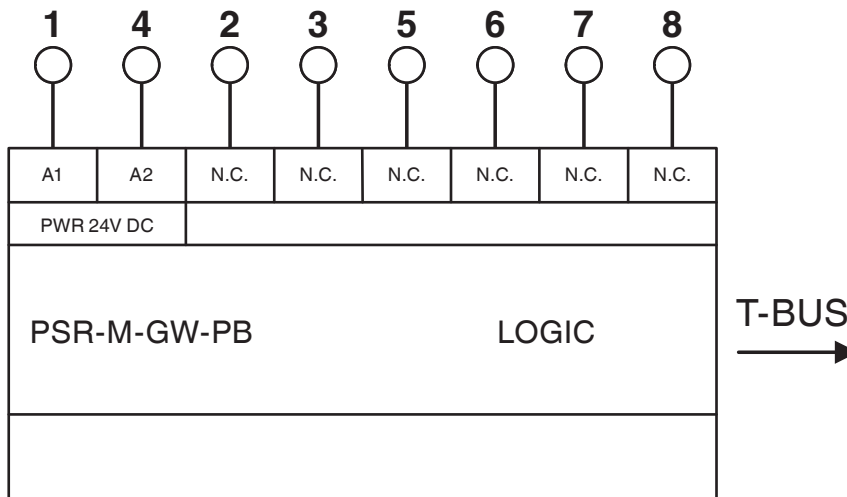
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Drawings

Application drawing



Block diagram



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1105100>



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% |
|-------------------------------------|----------------------------|

EF3.1 Climate Change

| | |
|---------|----------------|
| CO2e kg | 50.791 kg CO2e |
|---------|----------------|

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