

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
- Narrow 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 |
| 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 | 1.44 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. 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 |

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 |
| Transmission speed | 12 Mbps |

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) |

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Dimensions

| | |
|--------|-----------|
| Width | 22.61 mm |
| Height | 107.74 mm |
| Depth | 114.75 mm |

Material specifications

| | |
|------------------|-----------------------------|
| 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 |
| Connection method | Push-in connection |

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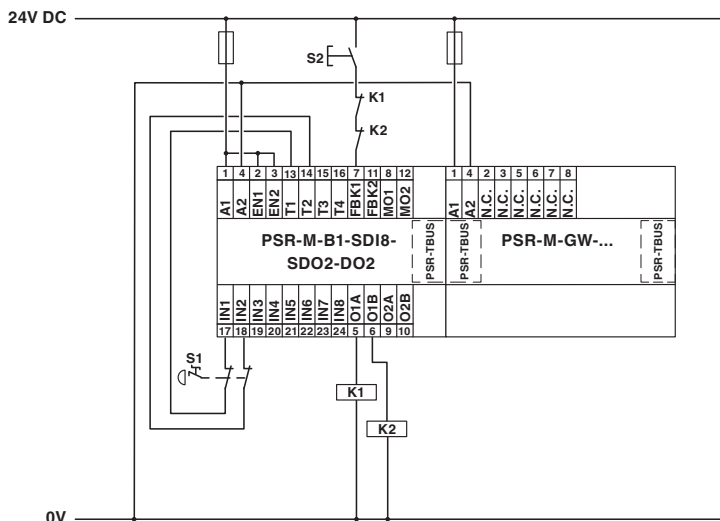


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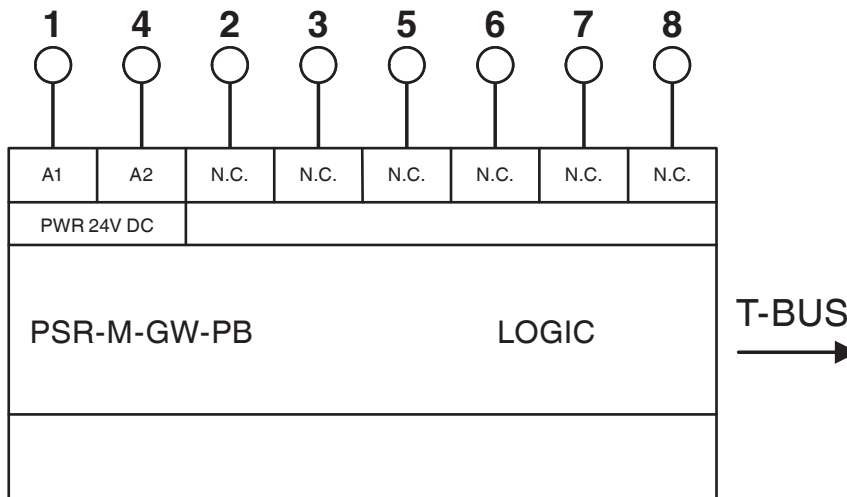
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Drawings

Application drawing




Block diagram



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Approvals

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UL Listed

Approval ID: FILE E 238705



cUL Listed

Approval ID: FILE E 238705



EAC

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

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Classifications

ECLASS

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

ETIM

| | |
|----------|----------|
| ETIM 8.0 | 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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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

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

1104972

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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

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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

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

1104975

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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



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

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



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