

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



1105102

<https://www.phoenixcontact.com/us/products/1105102>

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Gateway for connecting a PSR-M base module to a higher-level controller, PROFINET, 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 PROFINET.

## 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	1105102
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN02
Product key	DNA365
GTIN	4055626975030
Weight per piece (including packing)	162 g
Weight per piece (excluding packing)	125 g
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
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### Product properties

Product type	Gateways/Proxies
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#### Insulation characteristics

Protection class	III (EN 50178)
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#### Insulation characteristics

Overvoltage category	II
Degree of pollution	2

### Electrical properties

Maximum power dissipation for nominal condition	1.92 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 (without network connection)
	typ. 70 mA (with 1 network connection)
	typ. 80 mA (with 2 network connections)
Power consumption at $U_S$	typ. 1.68 W (with 1 network connection)
	typ. 1.92 W (with 2 network connections)
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	PROFINET
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Connection method	RJ45 jack
Number of connections	2
Transmission speed	100 Mbps (Full duplex)

## 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	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
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## Mounting

Mounting type	DIN rail mounting
Assembly note	Observe derating
Mounting position	vertical or horizontal

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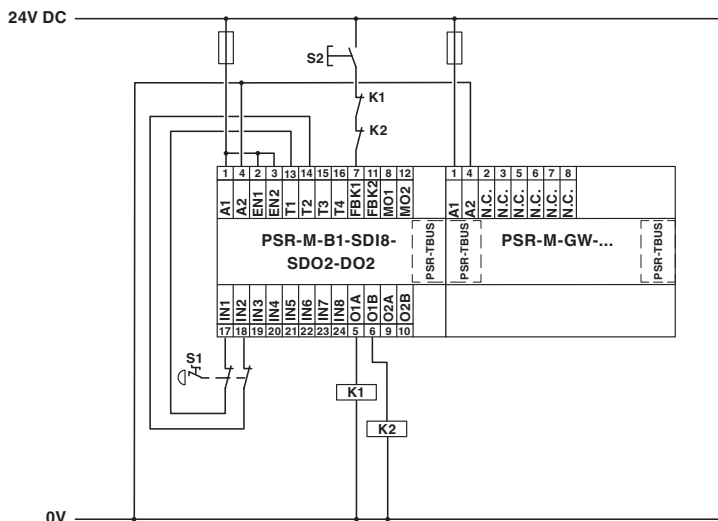


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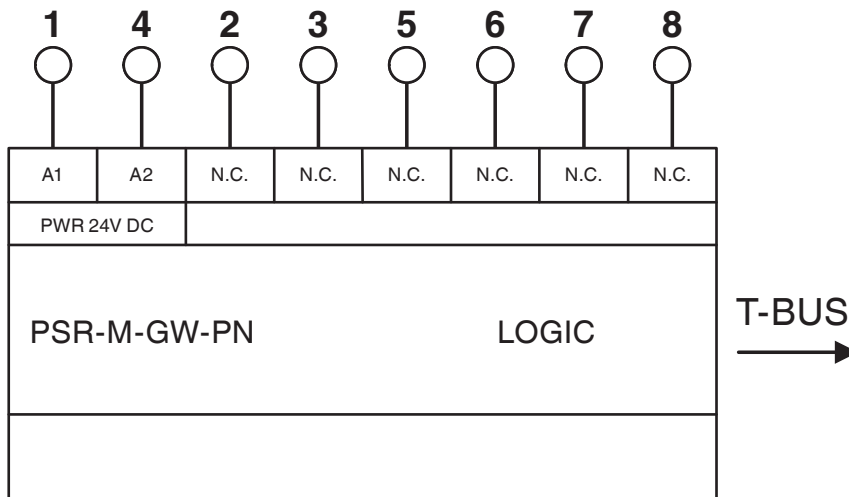
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## Drawings

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
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### UNSPSC

UNSPSC 21.0	32151600
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### 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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