

PSR-M-GW-ETH-PI - Data interface



1105107

<https://www.phoenixcontact.com/us/products/1105107>

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Gateway for connecting a PSR-M base module to a higher-level controller, EtherNet/IP™, 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. The gateway is designed for use with EtherNet/IP™.

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	1105107
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN02
Product key	DNA365
GTIN	4055626975504
Weight per piece (including packing)	167.1 g
Weight per piece (excluding packing)	166 g
Customs tariff number	85176200
Country of origin	IT

Technical data

Product properties

Product type	Gateways/Proxies
Insulation characteristics	
Protection class	III (EN 50178)

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

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 (without network connection)
	typ. 70 mA (1 network connection)
	typ. 80 mA (2 network connections)
Power consumption at U_S	typ. 1.68 W (1 network connection)
	typ. 1.92 W (2 network connections)
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	EtherNet/IP™
Connection method	RJ45 jack
Number of connections	2
Transmission speed	100 Mbps

Data: Service interface

Connection method	USB 2.0 Hi-Speed
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Number of connections	1
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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	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

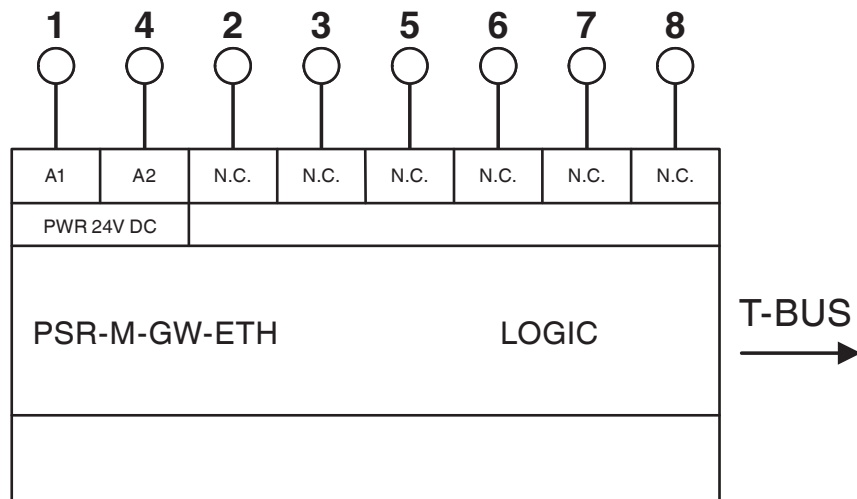
Identification	CE-compliant
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Mounting

Mounting type	DIN rail mounting
Mounting position	vertical or horizontal

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Block diagram



The diagram shows the connection of a 24V DC supply to two modules: PSR-M-B1-SD18-SDO2-DO2 and PSR-M-GW-... (GSM module). The 24V DC supply is connected to the top terminals of the modules. The PSR-M-B1-SD18-SDO2-DO2 module has terminals 1 through 17. Terminals 1, 4, 2, 3, 13, 14, 15, 16, 7, 11, 8, and 12 are connected to the 24V supply. Terminals 17, 18, 19, 20, 21, 22, 23, 24, 5, 6, 9, and 10 are connected to the 0V supply. The PSR-M-GW-... module has terminals 1 through 8. Terminals 1, 4, 2, 3, 5, 6, 7, and 8 are connected to the 24V supply. Terminals 17, 18, 19, 20, 21, 22, 23, 24, 5, 6, 9, and 10 are connected to the 0V supply. The modules are connected to a central unit via a bus system. The central unit has terminals 1 through 17. Terminals 1, 4, 2, 3, 13, 14, 15, 16, 7, 11, 8, and 12 are connected to the 24V supply. Terminals 17, 18, 19, 20, 21, 22, 23, 24, 5, 6, 9, and 10 are connected to the 0V supply. The modules are connected to a central unit via a bus system. The central unit has terminals 1 through 17. Terminals 1, 4, 2, 3, 13, 14, 15, 16, 7, 11, 8, and 12 are connected to the 24V supply. Terminals 17, 18, 19, 20, 21, 22, 23, 24, 5, 6, 9, and 10 are connected to the 0V supply.

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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



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
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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
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

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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 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



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 mm² ... 6.0 mm², lateral entry, trapezoidal crimp

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