

Data interface - PSR-M-GW-PN-SC - 1105101

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

Your advantages

- ✓ Economical safety solution with a high level of adaptability to individual requirements
- ✓ Fast startup, thanks to easy hardware and software configuration
- ✓ Machine downtime minimized with comprehensive, easy-to-understand diagnostics
- ✓ Low housing width of only 22.5mm



COMPLETE line

Key Commercial Data

Packing unit	1 pc
GTIN	 4 055626 975412
GTIN	4055626975412
Weight per Piece (excluding packing)	180.000 g
Custom tariff number	85371098
Country of origin	Italy

Technical data

Dimensions

Width	22.5 mm
Height	112.2 mm

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Technical data

Dimensions

Depth	114.5 mm
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Ambient conditions

Ambient temperature (operation)	-10 °C ... 55 °C (observe derating)
Ambient temperature (storage/transport)	-20 °C ... 85 °C
Max. permissible relative humidity (operation)	95 % (non-condensing)
Max. permissible humidity (storage/transport)	95 % (non-condensing)
Maximum altitude	≤ 2000 m (Above sea level)

Power supply

Designation	A1/A2
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)
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

Device interface

Designation	Network interface
Communication protocol	PROFINET
Connection method	RJ45 jack
Number of connections	2
Transmission speed	100 Mbps (Full duplex)
Transmission length	max. 100 m
Designation	Service interface
Connection method	USB 2.0 Hi-Speed
Number of connections	1
Maximum cable length	3 m

General

Nominal operating mode	100% operating factor
Net weight	131 g
Mounting position	vertical or horizontal
Mounting type	DIN rail mounting
Assembly instructions	Observe derating

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Technical data

General

Degree of protection	IP20
Min. degree of protection of inst. location	IP54
Protection class	III (EN 50178)
Housing material	Polyamide PA non-reinforced
Housing color	gray
Operating voltage display	1 x green LED
Status display	1 x LED (green), 2 x LED (green, red)
Indication	2 x LED (red)

Connection data

Connection method	Screw connection
pluggable	Yes
Conductor cross section solid	0.2 mm² ... 2.5 mm²
Conductor cross section flexible	0.2 mm² ... 2.5 mm²
Conductor cross-section AWG	24 ... 12
Stripping length	7 mm
Screw thread	M3
Torque	0.5 Nm ... 0.6 Nm

Standards and Regulations

Standards/regulations	EN 50178
Rated insulation voltage	250 V AC
Rated surge voltage/insulation	Basic insulation 4 kV
Degree of pollution	2
Overvoltage category	II
Shock	10g for $\Delta t = 16$ ms (continuous shock, 1000 shocks in each space direction)
Vibration (operation)	10 Hz ... 150 Hz, 2g
Conformance	CE-compliant

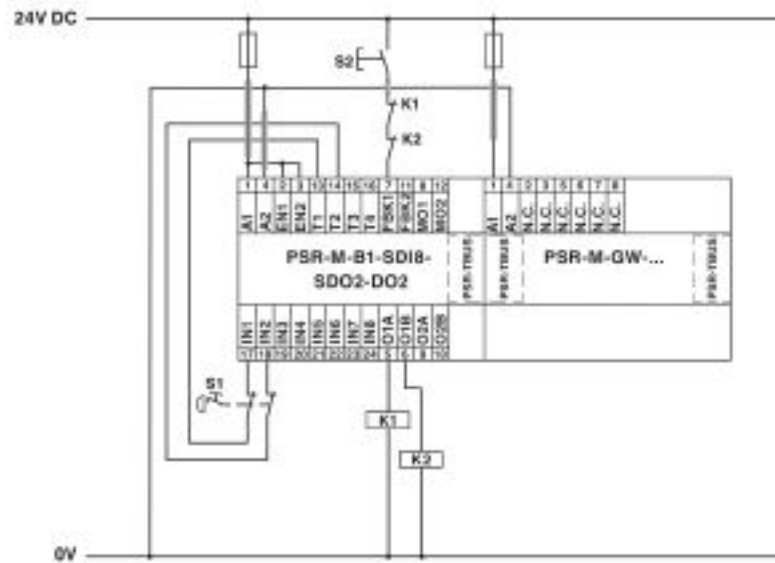
Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

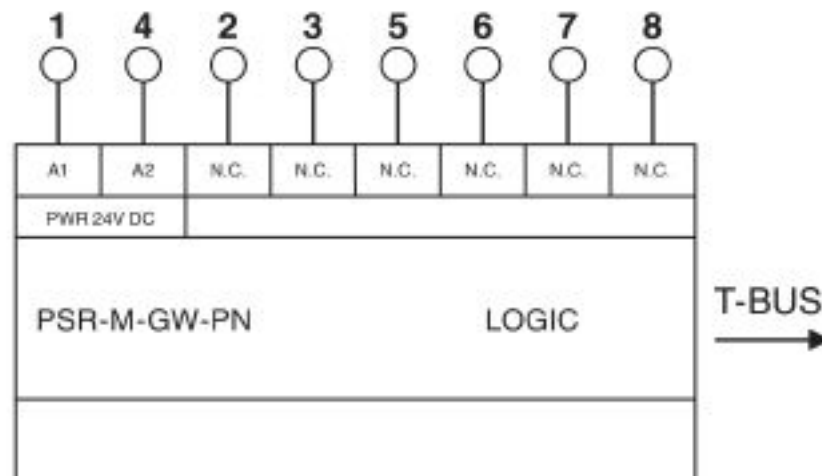
Drawings

Application drawing

Application drawing



Block diagram



Classifications

eCl@ss

eCl@ss 10.0.1	27242608
eCl@ss 8.0	27242608

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Classifications

eCl@ss

eCl@ss 9.0	27242608
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ETIM

ETIM 5.0	EC001604
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Approvals

Approvals

Approvals

UL Listed / cUL Listed / cULus Listed

Ex Approvals

Approval details

UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705
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cUL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705
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cULus Listed			
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Accessories

Accessories

Coding element

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Accessories

Coding profile - CP-MSTB - 1734634



Coding profile, is inserted into the slot on the plug or inverted header, red insulating material

Coding section - CR-MSTB - 1734401



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

Programming cable

USB cable - CABLE-USB/MINI-USB-3,0M - 2986135



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

Safety device

Safety module - PSR-M-B1-SDI8-SDO2-DO2-SC - 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 SILCL 3, Cat. 4/PL e, SIL 3, plug-in screw terminal block, TBUS connector not included

Safety module - PSR-M-B1-SDI8-SDO2-DO2-PI - 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 SILCL 3, Cat. 4/PL e, SIL 3, plug-in Push-in terminal block, TBUS connector not included

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Accessories

Safety module - PSR-M-B2-SDI8-SDO4-DO4-SC - 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 SILCL 3, Cat. 4/PL e, SIL 3, plug-in screw terminal block, TBUS connector not included

Safety module - PSR-M-B2-SDI8-SDO4-DO4-PI - 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 SILCL 3, Cat. 4/PL e, SIL 3, plug-in Push-in terminal block, TBUS connector not included