PSR-M-GW-PB-SC - Data interface

1105099

https://www.phoenixcontact.com/us/products/1105099

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Gateway for connecting a PSR-M base module to a higher-level controller, PROFIBUS DP, 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 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

Commercial data

Item number	1105099
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN02
Product key	DNA365
GTIN	4055626973371
Weight per piece (including packing)	175.7 g
Weight per piece (excluding packing)	160 g
Customs tariff number	85371098
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	1.44 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 (Δt = 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	Screw connection
Stripping length	7 mm
Tightening torque	0.5 ... 0.6 Nm
Screw thread	M3

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)

Dimensions

Width	22.61 mm
Height	112.58 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 Δt = 16 ms (continuous shock, 1000 shocks in each space direction)
Vibration (operation)	10 Hz ... 150 Hz, 2g

Approvals

CE

Identification	CE-compliant

Mounting

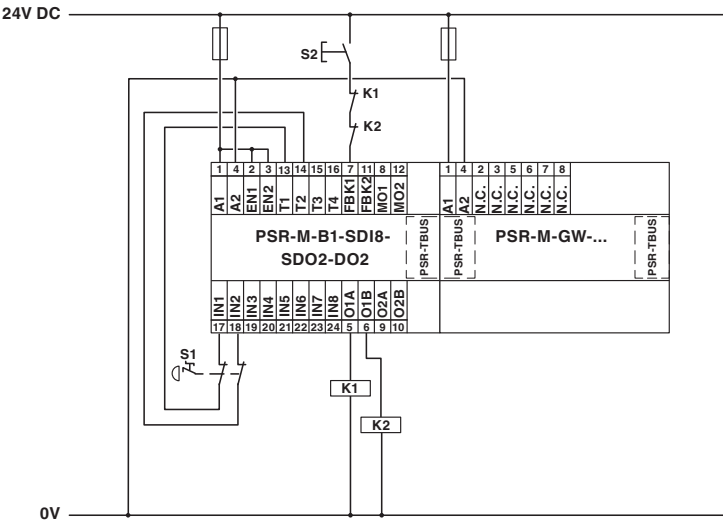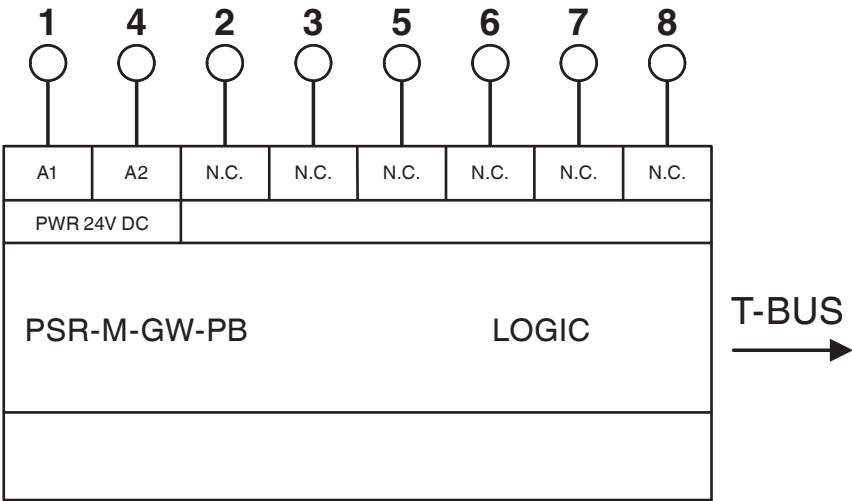| Mounting type	DIN rail mounting
Mounting position	vertical or horizontal

Drawings

Application drawing

Block diagram

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1105099

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

UNSPSC

UNSPSC 21.0	32151600

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

https://www.phoenixcontact.com/us/products/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 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

https://www.phoenixcontact.com/us/products/1212034

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 mm^2 ... 6.0 mm^2, lateral entry, trapezoidal crimp