

Data interface - PSR-M-GW-DNET-PI - 1105473

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



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

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
- ✓ Tool-free and time-saving installation with Push-in technology
- ✓ Low housing width of only 22.5mm



Key Commercial Data

Packing unit	1 pc
GTIN	
GTIN	4055626976075

Technical data

Dimensions

Width	22.5 mm
Height	116.4 mm
Depth	114.5 mm

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)

Data interface - PSR-M-GW-DNET-PI - 1105473

Technical data

Ambient conditions

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. 30 mA (at U_s)
Power consumption at U_s	typ. 0.75 W
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	DeviceNet™
Connection method	Connector
Number of connections	1
Transmission speed	max. 500 kbps
Transmission speed range	125 kbps ... 500 kbps
Transmission length	max. 500 m (depending on the transmission speed)
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	125 g
Mounting position	vertical or horizontal
Mounting type	DIN rail mounting
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	Push-in connection
pluggable	Yes
Conductor cross section solid min.	0.2 mm²

Data interface - PSR-M-GW-DNET-PI - 1105473

Technical data

Connection data

Conductor cross section solid max.	2.5 mm ²
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	2.5 mm ²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	16
Stripping length	10 mm

Standards and Regulations

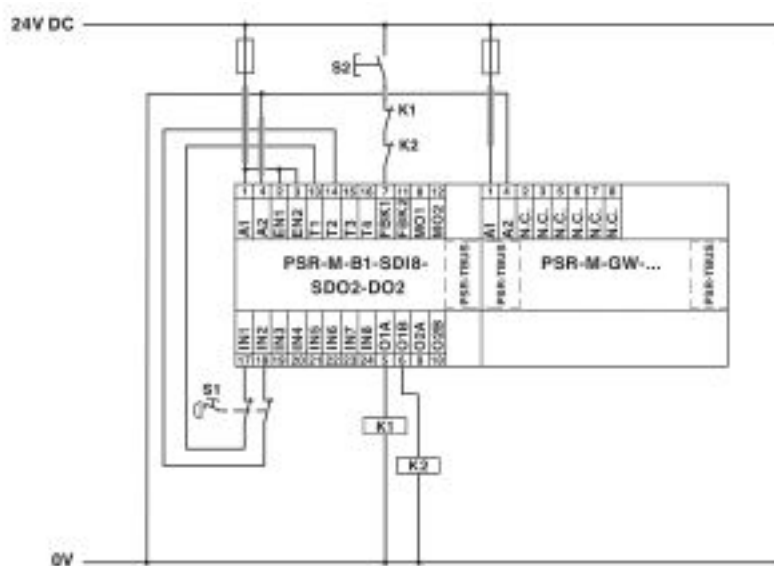
Standards/regulations	EN 50178
Rated insulation voltage	250 V AC
Rated surge voltage/insulation	Basic insulation 4 kV
Degree of pollution	2
Overvoltage category	II
Shock	10g for $\Delta t = 16$ ms (continuous shock, 1000 shocks in each space direction)
Vibration (operation)	10 Hz ... 150 Hz, 2g
Conformance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

Environmental Product Compliance

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

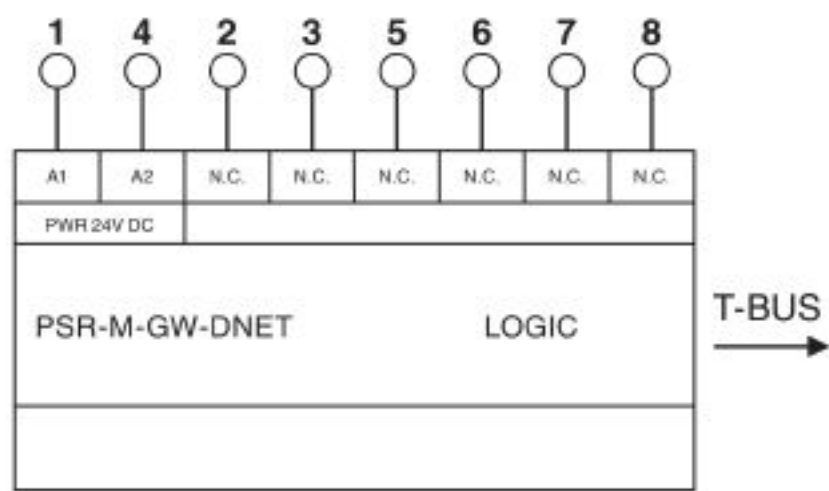
Drawings

Application drawing



Data interface - PSR-M-GW-DNET-PI - 1105473

Block diagram



Classifications

eCl@ss

eCl@ss 10.0.1	27242608
eCl@ss 8.0	27242608
eCl@ss 9.0	27242608

ETIM

ETIM 5.0	EC001604
----------	----------

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
-----------	---	---	---------------

Data interface - PSR-M-GW-DNET-PI - 1105473

Approvals

cUL Listed



<http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm>

FILE E 238705

cULus Listed



Accessories

Accessories

Coding element

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

Data interface - PSR-M-GW-DNET-PI - 1105473

Accessories

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

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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Phoenix Contact:](#)

[1105473](#)