PSR-M-GW-MODTCP-SC - Data interface

1105108

https://www.phoenixcontact.com/us/products/1105108

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

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	1105108
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN02
Product key	DNA365
GTIN	4055626975153
Weight per piece (including packing)	170 g
Weight per piece (excluding packing)	131 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	1.9 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. 56 mA (without network connection)
	typ. 66 mA (with 1 network connection)
	typ. 77 mA (with 2 network connections)
Power consumption at U_S	typ. 1.6 W (with 1 network connection)
	typ. 1.9 W (with 2 network connections)
Inrush current	< 2.2 A (Δt = 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

Interfaces

Data: Network interface

Communication protocol	Modbus TCP/IP
Connection method	RJ45 jack
Number of connections	1

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	113.6 mm

Material specifications

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
Connection method	Screw connection

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

Classifications

ECLASS

ECLASS-11.0	27242608
ECLASS-12.0	27242608
ECLASS-13.0	27242608

ETIM

ETIM 8.0	EC001604

UNSPSC

UNSPSC 21.0	32151600

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Environmental product compliance

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

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