PSR-M-GW-CAN-XC-PI - Data interface

1337853

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

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
- Low housing width of just 22.6 mm
- Tool-free and time-saving installation thanks to Push-in technology
- Corrosion protection through protective coating on the PCB
- Suitable for ATEX Zone 2 or Class I Zone 2

ELEKTROGERÄTE RÜCKNAHME

Commercial data

Item number	1337853
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN02
Product key	DNA365
GTIN	4063151640064

Weight per piece (including packing)	160.9 g
Weight per piece (excluding packing)	159 g
Customs tariff number	85176200
Country of origin	IT

Technical data

Product properties

Product type	Gateways/Proxies

Insulation characteristics

Overvoltage category	II
Degree of pollution	2

Electrical properties

Maximum power dissipation for nominal condition	1 W
Nominal operating mode	100% operating factor
Interfaces	DIN rail TBUS for connection to the master module, supplied as standard
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. 35 mA (without network connection)
	typ. 40 mA (with network connection)
Power consumption at U_S	typ. 1 W (with network connection)
Inrush current	11.194 A (Δt = 2 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

Connection data

Connection method	Push-in connection
Stripping length	10 mm

Interfaces

Data: Network interface

Communication protocol	CANopen®
Connection method	D-SUB-9 female connector
Number of connections	1
Transmission speed	max. 1 Mbps

Data: Service interface

Connection method	USB 2.0 Hi-Speed
Number of connections	1
Maximum cable length	3 m

Data: Local bus

Note	via the PSR-TBUS DIN rail connector

Signaling

Status display	1 x LED (green), 1 x LED (green, red), 1 x LED (red)
Operating voltage display	1 x LED (green)
Error indication	2 x LED (red)

Dimensions

Width	22.61 mm
Height	107.74 mm
Depth	115.95 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 ... 70 °C (observe derating)
Ambient temperature (operation) (ATEX)	-10 °C ... 50 °C (When used in potentially explosive areas. 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

ATEX

Identification	Ⓔx II 3G Ex ec IIC T4 Gc
Certificate	PxCIMA24ATEX1337855X
Note	T4: for -10°C ≤ T_{amb} ≤ ⓉⓄ.⏚⬇°C

UL Ex, USA / Canada

Identification	Class I, Div. 2, Groups A, B, C, D T4
Note	T4: for -10°C ≤ T_{amb} ≤ ⓉⓄ.⏚⬇°C

CE

Identification	CE-compliant

Environmental simulation test

Identification	G3
Certificate	ISA-S71.04

Mounting

Mounting type	DIN rail mounting
Assembly note	Observe derating
Mounting position	vertical or horizontal

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1337853

cULus Listed
Approval ID: E238705

Functional Safety
Approval ID: Z10029429 0013Rev.02

cULus Listed
Approval ID: E196811

Classifications

ECLASS

ECLASS-13.0	27242608
ECLASS-15.0	27242608

ETIM

ETIM 10.0	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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