

Extension module - PSR-M-TBUS1-PI - 1105096

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Safe extension module for local bus extension; 1 function channel; TBUS interface, up to SILCL 3, Cat. 4/ PL e, SIL 3, pluggable 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. The extension module is for extending the local bus in the PSRmodular system. Therefore, additional extension modules can be integrated into the system that are at a certain distance from the base station.

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	 4 055626 975139
GTIN	4055626975139

Technical data

Dimensions

Width	22.5 mm
Height	116.5 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)

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Ambient conditions

Maximum altitude	≤ 2000 m (Above sea level)
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Power supply

Designation	A1/A2
Rated control circuit supply voltage U_s	24 V DC -20 % / +20 % (provide external protection, typically 1 A)
Rated control supply current I_s	typ. 21 mA (at U_s)
Power consumption at U_s	typ. 0.5 W
Inrush current	max. 8 A ($\Delta t = 200 \mu s$ at U_s)
Filter time	typ. 20 ms (in the event of voltage dips at U_s)
Protective circuit	Serial protection against polarity reversal
	Varistor

General

Nominal operating mode	100% operating factor
Net weight	110 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	yellow
Operating voltage display	1 x green LED
Status display	1 x green LED
Indication	2 x LED (red)

Connection data

Connection method	Push-in connection
pluggable	Yes
Conductor cross section solid min.	0.2 mm ²
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 between all current paths and housing
Degree of pollution	2
Overvoltage category	II

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Technical data

Standards and Regulations

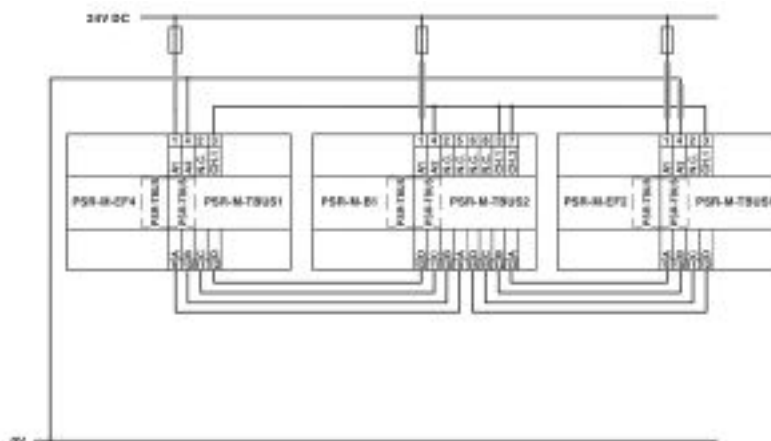
Shock	10g for $\Delta t = 16$ ms (continuous shock, 1000 shocks in each space direction)
Vibration (operation)	10 Hz ... 150 Hz, 2g
Conformance	CE-compliant

Environmental Product Compliance

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

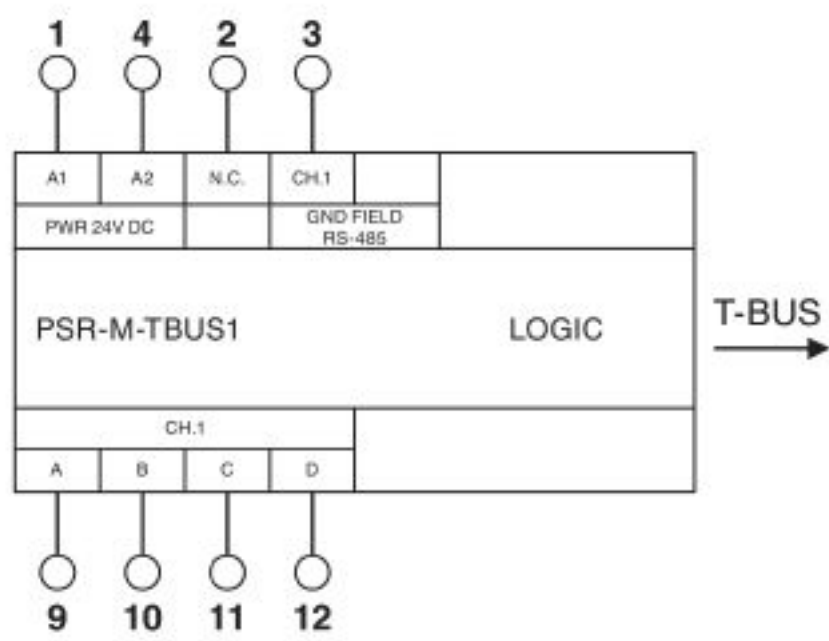
Drawings

Application drawing



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Block diagram



Classifications

eCl@ss

eCl@ss 10.0.1	27371819
eCl@ss 8.0	27371819
eCl@ss 9.0	27371819

ETIM

ETIM 5.0	EC001449
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Approvals

Approvals

Approvals

UL Listed / cUL Listed / cULus Listed

Ex Approvals

Approval details

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Approvals

UL Listed



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

FILE E 238705

cUL Listed



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

FILE E 238705

cULus Listed



Accessories

Accessories

Adapter cable

Cable - PSR-M-CABLE100 - 1104834

Connection cable for TBUS extension in connection with PSR-M-TBUS1 or PSR-M-TBUS2, 100 m

Cable - PSR-M-CABLE50 - 1104841

Connection cable for TBUS extension in connection with PSR-M-TBUS1 or PSR-M-TBUS2, 50 m

Cable - PSR-M-CABLE25 - 1104855

Connection cable for TBUS extension in connection with PSR-M-TBUS1 or PSR-M-TBUS2, 25 m

Coding element

Coding profile - CP-MSTB - 1734634

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



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Accessories

Coding section - CR-MSTB - 1734401

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



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