

PSR-M-TBUS1-PI - Extension module



1105096

<https://www.phoenixcontact.com/us/products/1105096>

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Safe extension module for local bus extension, 1 function channel, TBUS interface, up to SIL 3, Cat. 4/PL e, 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. 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

- 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



Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1105096 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | DN02 |
| Product key | DNA362 |
| GTIN | 4055626975139 |
| Weight per piece (including packing) | 144 g |

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| | |
|--------------------------------------|----------|
| Weight per piece (excluding packing) | 110 g |
| Customs tariff number | 85371098 |
| Country of origin | IT |

Technical data

Notes

Note on application

| | |
|---------------------|-------------------------|
| Note on application | Only for industrial use |
|---------------------|-------------------------|

Product properties

| | |
|--------------|---------------------|
| Product type | Extension module |
| Application | Local bus extension |

Insulation characteristics

| | |
|------------------|-----|
| Protection class | III |
|------------------|-----|

Insulation characteristics

| | |
|----------------------|----|
| Overvoltage category | II |
| Degree of pollution | 2 |

Electrical properties

| | |
|---|---|
| Maximum power dissipation for nominal condition | 0.5 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 between all current paths and housing |

Brake to be connected

| | |
|-------------------|--------------------|
| Connection method | Push-in connection |
|-------------------|--------------------|

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 % (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 |

Connection data

| | |
|-------------------|--------------------|
| Connection method | Push-in connection |
| Stripping length | 10 mm |

Interfaces

Data: Local bus extension

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| | |
|------------------------|--|
| Communication protocol | RS-485 |
| Connection method | Terminal block |
| Number of connections | 1 |
| Note | Note the requirements for the transmission cable in accordance with the data sheet section "Wiring". |

Signaling

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

Dimensions

| | |
|--------|-----------|
| Width | 22.61 mm |
| Height | 107.74 mm |
| Depth | 113.6 mm |

Material specifications

| | |
|------------------|-----------------------------|
| Color (Housing) | yellow (RAL 1018) |
| 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 $\Delta t = 16$ 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 |

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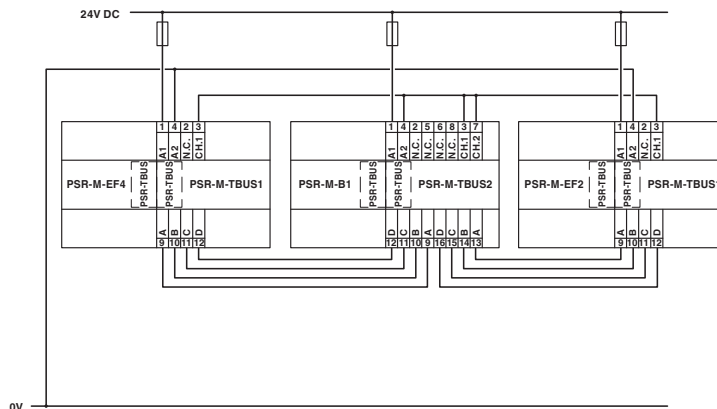


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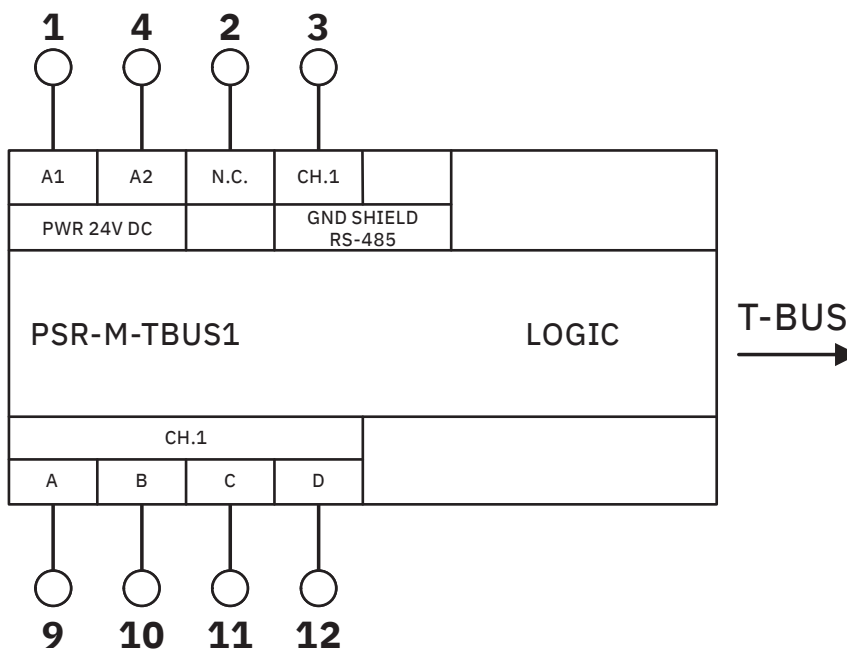
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Drawings

Application drawing



Block diagram



Block diagram

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Approvals

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cULus Listed

Approval ID: E238705



Functional Safety

Approval ID: Z10029429 0013Rev.02

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27371819 |
| ECLASS-15.0 | 27371819 |

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC001449 |
|-----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 39122200 |
|-------------|----------|

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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% |
|-------------------------------------|----------------------------|

EF3.1 Climate Change

| | |
|---------|----------------|
| CO2e kg | 24.059 kg CO2e |
|---------|----------------|

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