# Extension module - PSR-M-TBUS1-SC

1105095

https://www.phoenixcontact.com/us/products/1105095

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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 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. 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
- Narrow housing width of just 22.6 mm

## Commercial Data

| | |
|---|---|
| Item number | 1105095 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to Order (non-returnable) |
| Sales Key | C18 |
| Product Key | DNA362 |
| GTIN | 4055626973456 |
| Weight per Piece (including packing) | 150 g |
| Weight per Piece (excluding packing) | 116 g |
| Customs tariff number | 85371098 |
| Country of origin | IT |

## Technical Data

### Product properties

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

Insulation characteristics

| | |
|---|---|
| Protection class | III (EN 50178) |
| Overvoltage category | II |

### 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 insulation voltage | 250 V AC |
| Rated surge voltage/insulation | Basic insulation 4 kV between all current paths and housing |

Brake to be connected

| | |
|---|---|
| Connection method | Screw 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 µs 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 |

### Interfaces

Data: Local bus extension

| | |
|---|---|
| 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”. |

### LED signaling

| | |
|---|---|
| Status display | 1 x green LED |
| 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

| | |
|---|---|
| Color | yellow |
| 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 |

## Approval data

### CE

| | |
|---|---|
| Certificate | CE-compliant |

## Standards and regulations

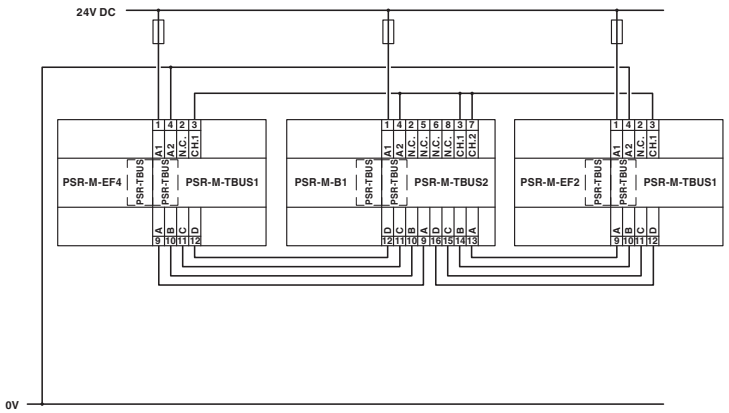
| | |
|---|---|
| Standards/regulations | EN 50178 |

## Mounting

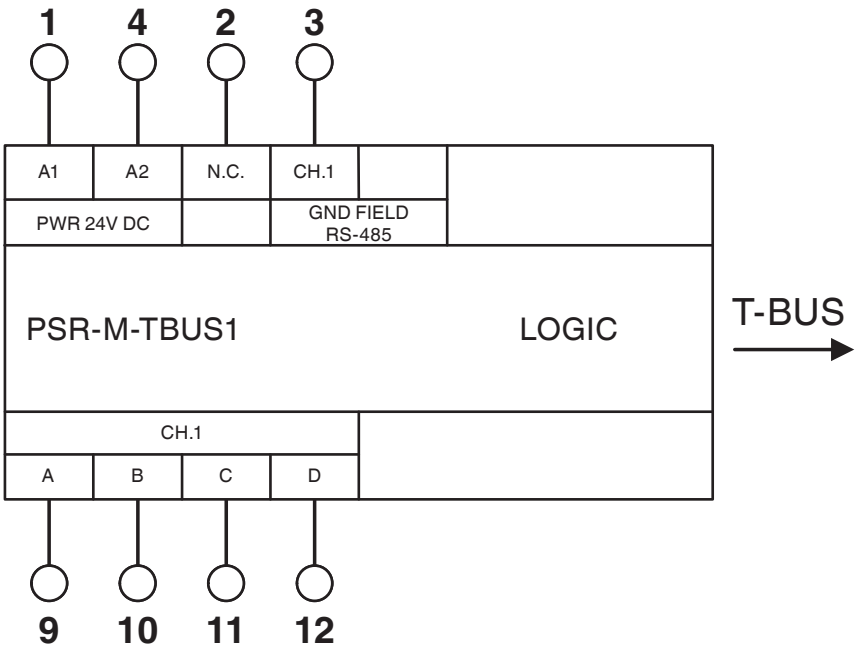
| | |
|---|---|
| Mounting type | DIN rail mounting |
| Mounting position | vertical or horizontal |

## Drawings

Application drawing




Block diagram




Block diagram

## Approvals

**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-9.0 | 27371819 |
| ECLASS-10.0.1 | 27371819 |
| ECLASS-11.0 | 27371819 |

### ETIM

| | |
|---|---|
| ETIM 8.0 | EC001449 |

### UNSPSC

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

## Environmental Product Compliance

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

## Accessories

### Coding profile

Coding profile - CP-MSTB - 1734634

https://www.phoenixcontact.com/us/products/1734634

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



### Coding section

Coding section - CR-MSTB - 1734401

https://www.phoenixcontact.com/us/products/1734401

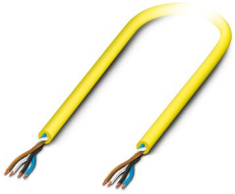
Coding section, inserted into the recess in the header or the inverted plug, red insulating material



## Cable

Cable - PSR-M-CABLE100 - 1104834

https://www.phoenixcontact.com/us/products/1104834

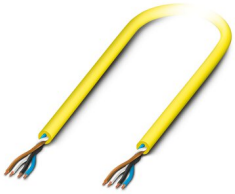


Connection cable for TBUS extension in connection with PSR-M-TBUS1 or PSR-M-TBUS2, 100 m

## Cable

Cable - PSR-M-CABLE50 - 1104841

https://www.phoenixcontact.com/us/products/1104841

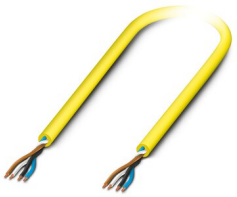


Connection cable for TBUS extension in connection with PSR-M-TBUS1 or PSR-M-TBUS2, 50 m

## Cable

Cable - PSR-M-CABLE25 - 1104855

https://www.phoenixcontact.com/us/products/1104855



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


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