

Safety module - PSR-SCP- 24DC/TS/M - 2986012

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A freely configurable master module for the monitoring of emergency stop, safety doors, light grids, etc., with 20 safe inputs and four safe outputs, four message outputs, two clock outputs and two ground switching outputs, can be expanded with additional input/output modules. Width: 67.5 mm

Why buy this product

- Including PSR-TBUS plug-in connector (DIN rail connector) for adapting safe extension modules
- Including IFS-CONFSTICK memory stick for easily storing and saving the configuration
- Option for connecting fieldbus gateways for diagnostics and signaling functions
- Easy graphical configuration with the SAFECONF software
- Flexible extension with safe inputs and outputs
- Multifunctional use for a wide range of safety functions
- Quick startup thanks to user-friendly simulation and test options
- Easy graphical configuration instead of complex programming
- Up to Cat. 4/PL e according to ISO 13849-1, SILCL 3 according to IEC 62061, SIL 3 according to IEC 61508
- Safe and standard extension via INTERFACE DIN rail TBUS
- With 20 safe inputs, 4 safe outputs, 4 alarm outputs, and 2 clock outputs on a design width of just 67.5 mm

Key commercial data

| | |
|------------------------|---------------------|
| Packing unit | 0 |
| Minimum order quantity | 1 |
| Catalog page | Page 30 (IF-2011) |
| GTIN | 4 046356 346979 |
| Custom tariff number | 85364900 |
| Country of origin | GERMANY |

Technical data

Input data

| | |
|--|--------------|
| Nominal input voltage UN | 24 V DC |
| Input voltage range in reference to UN | 0.85 ... 1.1 |
| Typical input current at UN | 110 mA |
| Maximum response time | < 30 ms |
| Bypassing voltage dips | 20 ms |
| Recovery time | < 10 s |

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Technical data

Input data

| | |
|---|-----------------------------------|
| Protective circuit | Surge protection Suppressor diode |
| Status display | 4 LEDs (green, red) |
| Number of safe inputs | 20 |
| Nominal voltage UN | 24 V DC |
| Typical current consumption | 4 mA |
| Signal level "0" signal | < 5 V |
| Signal level "1" signal | > 11 V |
| Permissible cable length | 2000 m |
| Error detection time at 1-channel structure | < 1 s |

Output data

| | |
|--------------------------------------|--|
| Output data | 20 safe digital inputs 4 safe digital outputs 4 digital alarm outputs Clock outputs Yes |
| Number of safe semiconductor outputs | 4 (Cat.4 / ISO 13849) |
| Number of ground switching outputs | 2 |
| Nominal voltage UN | 24 V DC |
| Limiting continuous current | 2 A (see derating curve) |
| Max. capacitive load | 1 µF (When using electromechanical components (e.g., contactors), the capacitive load can be disregarded.) |
| Max. inductive load | (A suitable and effective protective circuit is to be provided for inductive loads. A recommended measure is the use of free-wheeling diodes.) |
| Test pulses | < 1 ms (To ground) |
| Short-circuit protection | Yes |
| Clock outputs | Yes |
| Number of outputs | 2 |
| Nominal voltage UN | 24 V DC (A1 / A2) |
| Limiting continuous current | 100 mA |
| Test pulses | ~ 100 ms |
| Short-circuit protection | Yes |
| Alarm outputs | Yes |
| Number of outputs | 4 |
| Nominal voltage UN | 24 V DC (A1 / A2) |
| Limiting continuous current | 100 mA |
| Short-circuit protection | Yes |

General data

| | |
|---|---|
| Width | 67.5 mm |
| Height | 99 mm |
| Depth | 114.5 mm |
| Ambient temperature (operation) | -20 °C ... 55 °C |
| Ambient temperature (storage/transport) | -20 °C ... 70 °C |
| Mounting position | Horizontal |
| Category according to EN 13849-1 | 4 |
| Name | Air and creepage distances between the power circuits |

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Technical data

General data

| | |
|---|-----------------------------|
| Standards/regulations | DIN EN 50178 |
| Rated surge voltage / insulation | 0.8 kV / Basic isolation |
| Rated insulation voltage | 50 V |
| Pollution degree | 2 |
| Surge voltage category | III |
| Housing material | Polyamide PA non-reinforced |
| Number of possible safe extension modules | 10 |
| Interfaces | USB |

Connection data

| | |
|--|---------------------|
| Conductor cross section solid min. | 0.2 mm ² |
| Conductor cross section solid max. | 2.5 mm ² |
| Conductor cross section stranded min. | 0.2 mm ² |
| Conductor cross section stranded max. | 2.5 mm ² |
| Conductor cross section AWG/kcmil min. | 24 |
| Conductor cross section AWG/kcmil max | 12 |
| Stripping length | 7 mm |
| Screw thread | M3 |
| Connection method | Screw connection |

Classifications

eclass

| | |
|------------|----------|
| eCl@ss 4.0 | 27371102 |
| eCl@ss 4.1 | 27371102 |
| eCl@ss 5.0 | 27371901 |
| eCl@ss 5.1 | 27371901 |
| eCl@ss 6.0 | 27371819 |

etim

| | |
|----------|----------|
| ETIM 2.0 | EC001449 |
| ETIM 3.0 | EC001449 |
| ETIM 4.0 | EC001449 |

unspsc

| | |
|---------------|----------|
| UNSPSC 6.01 | 30211901 |
| UNSPSC 7.0901 | 39121501 |
| UNSPSC 11 | 39121501 |
| UNSPSC 12.01 | 39121501 |
| UNSPSC 13.2 | 39121501 |

Approvals

Certificates

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Approvals

Certification

UL Listed / GOST / cUL Listed / cUL Listed

Certification EX

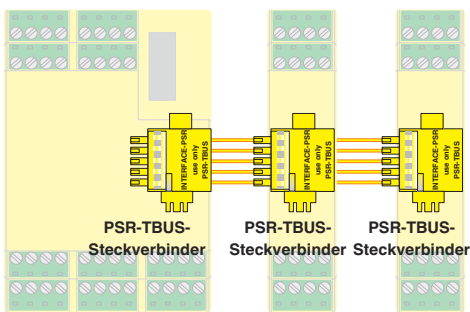
Certification submitted

Approval details

- UL Listed
- GOST
- cUL Listed
- cUL Listed

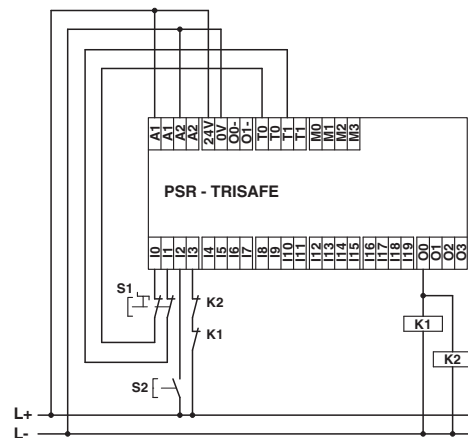
Drawings

Connection diagram



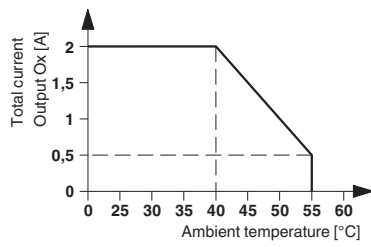
The TBUS connectors carry out the cross-wiring between the modules.

Application drawing

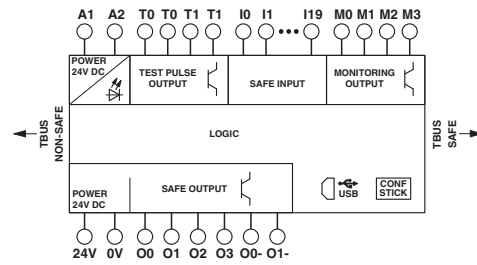


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Diagram



Circuit diagram



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- Поставка образцов и прототипов;
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Как с нами связаться

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