

## Extension module - PSR-SPP- 24DC/TS/SDI8/SDIO4 - 2986041

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Module for I/O extension of the PSR-TRISAFE master module with 8 safe inputs and 4 safe, freely parameterizable channels (safe inputs or outputs), easy connection via PSR-TBUS DIN rail connector, width: 22.5 mm

The figure shows a version with a screw connection

### Why buy this product

- ✓ Flexible extension with safe inputs and outputs
- ✓ Narrow 22.5 mm housing
- ✓ 4 safe digital outputs or 4 additional digital inputs (that can be configured using SAFECNF)
- ✓ Multifunctional use for a wide range of safety functions
- ✓ Easy graphical configuration instead of complex programming
- ✓ Quick startup thanks to user-friendly simulation and test options
- ✓ Including PSR-TBUS plug-in connector (DIN rail connector) for adapting to the PSR-TRISAFE-M master module
- ✓ Up to Cat. 4/PL e according to ISO 13849-1, SILCL 3 according to IEC 62061, SIL 3 according to IEC 61508
- ✓ 8 safe digital inputs
- ✓ 2 alarm outputs or 2 clock outputs (that can be configured using SAFECNF)

### Key commercial data

Packing unit	0
Minimum order quantity	1
Catalog page	Page 31 (IF-2011)
GTIN	 4 046356 451369
Custom tariff number	85389091
Country of origin	GERMANY

### Technical data

#### Input data

Nominal input voltage UN	24 V DC (A1 / A2)
Input voltage range in reference to UN	0.85 ... 1.1
Typical input current at UN	100 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	2 LEDs (green, red)
Number of safe inputs	12 (of which 4 can be configured as input or output)
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
Status display	12 LEDs (green)

### Output data

Output data	8 safe digital inputs 4 safe inputs 4 safe outputs 2 clock outputs 2 alarm outputs 4 LEDs (green)
Number of safe semiconductor outputs	4 (If the four parameterizable inputs/outputs are used as outputs)
Nominal voltage UN	24 V DC
Limiting continuous current	4x 0.5 A (see derating curve)
Max. capacitive load	1 µF (When using electromechanical components (e.g. safeguarding), 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
Cycle/alarm outputs	<p></p>
Number of outputs	2
Nominal voltage UN	24 V DC
Limiting continuous current	50 mA
Test pulses	~ 1 ms

### General data

Width	22.5 mm
Height	112 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
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

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## Technical data

### General data

Interfaces	DIN rail TBUS for connection to the master module, supplied as standard
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### Connection data

Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	1.5 mm <sup>2</sup>
Conductor cross section stranded min.	0.2 mm <sup>2</sup>
Conductor cross section stranded max.	1.5 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	16
Stripping length	8 mm
Connection method	Spring-cage conn.

## 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

#### Certification

UL Listed / GOST / cUL Listed / cUL Listed

#### Certification EX

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## Approvals

Certification submitted

### Approval details

UL Listed

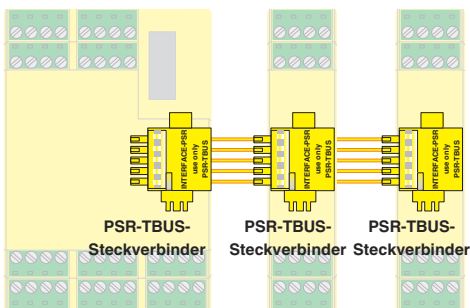
GOST

cUL Listed

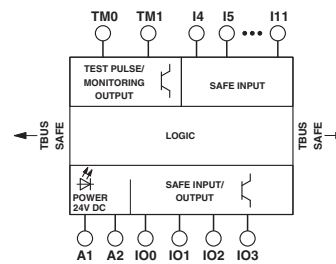
cUL Listed

## Drawings

### Connection diagram



### Circuit diagram



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

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