



Automatización Eléctrica
Especialistas en Automatización

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Functional safety

Configurable safety modules

PSR-TRISAFE system



PSR-TRISAFE can meet all safety function requirements quickly and easily.

PSR-TRISAFE offers many advantages:

- Multifunctional use for a wide range of safety functions
- Flexible extension with safe inputs and outputs
- Easy graphical configuration instead of complex programming
- Quick startup thanks to user-friendly simulation and test options

Flexible extension of master module

The configurable safety module is supplied with 20 safe inputs, 4 safe outputs, and 4 alarm outputs integrated as standard.

If more inputs and outputs are required, up to 10 extension modules can be connected alongside the extendable PSR-TRISAFE-M safety module. Safe digital I/O modules are available for flexible system expansion.

Integration in a bus system

Adaptable fieldbus gateways, available as an option, can be used to integrate the PSR-TRISAFE system in a bus system such as a PROFIBUS DP network. This enables communication with the higher-level control system for diagnostic and visualization purposes.

INTERFACE TBUS DIN rail

The INTERFACE TBUS DIN rail provides the link between extension modules and the safety module.

Easy device configuration

Functions are easy to configure using drag & drop in the free SAFECONF software.

PSR-TRISAFE-S

- Freely configurable safety module for monitoring emergency stop, safety doors, light grids, etc.
- With 20 safe inputs, 4 safe outputs, 4 alarm outputs, and 2 clock outputs on a design width of just 67.5 mm
- Easily graphically configurable with the SAFECONF software
- Quick commissioning by means of comprehensive simulation and test functions
- Option for connecting fieldbus gateways for diagnostics and signaling functions
- Incl. IFS-CONFSTICK memory stick for easy storage and backup of the configuration
- Up to Cat. 4/PL e according to EN ISO 13849-1, SILCL 3 according to IEC 62061, SIL 3 according to IEC 61508

Notes:

The necessary SAFECONF configuration software can be downloaded free of charge from www.phoenixcontact.com.

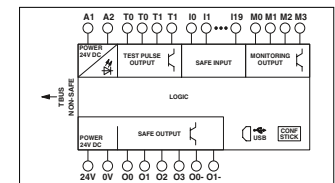
Further information on the SAFECONF configuration software can be found on page 110

Further information on fieldbus gateways can be found in the "Motor management" section of Catalog 7 or at www.phoenixcontact.net/products.

1) EMC: Class A product, see page 553



Configurable safety module, cannot be extended



Technical data

Module data				
Nominal input voltage U_N	24 V DC			
Permissible range (with reference to U_N)	0.85 ... 1.1			
Typ. current consumption (with reference to U_N)	110 mA			
Max. response time	< 30 ms			
Interfaces	USB			
Input data				
Number of safe inputs	20			
Nominal voltage	24 V DC			
Output data				
Safe semiconductor outputs	4 (Cat.4 / ISO 13849)			
Nominal voltage	24 V DC			
Limiting continuous current	2 A (see derating curve)			
Ground switching outputs				
Clock outputs	2			
Alarm outputs	4			
General data				
Ambient temperature range	-20 °C ... 55 °C			
Screw connection solid/stranded/AWG	0.2 - 2.5 mm ² / 0.2 - 2.5 mm ² / 24 - 12			
Spring-cage connection solid/stranded/AWG	0.2 - 1.5 mm ² / 0.2 - 1.5 mm ² / 24 - 16			
Dimensions	67.5 mm / 99 mm / 114.5 mm			
W / H / D	Screw version Spring-cage version 67.5 mm / 112 mm / 114.5 mm			
Ordering data				
Description	Type	Order No.	Pcs. / Pkt.	
Freely configurable safety module , for monitoring emergency stop, safety doors, light grids, etc., with 20 safe inputs and 4 safe outputs, 4 signaling and 2 cycle outputs	With screw connection	PSR-SCP- 24DC/TS/S/1	2986229	1
	With spring-cage connection	PSR-SPP- 24DC/TS/S/1	2986232	1
Accessories				
Configuration package for the PSR-TRISAFE safety module, consists of SAFECONF software, USB connecting cable, and quick start guide	German	PSR-SAFECONF-BOX-DE	2986151	1
	English	PSR-SAFECONF-BOX-EN	2986164	1
	Starter kit for the PSR-TRISAFE safety module, consists of PSR-TRISAFE demo board (with inputs and outputs), SAFECONF software, USB connecting cable (3 m), power supply with international plug adapters, quick start guide		PSR-TRISAFE STARTER KIT	2986300
Multi-functional memory block for the INTERFACE system		IFS-CONFSTICK ¹⁾	2986122	1
PSR-TBUS DIN rail connector , for supplying/controlling/monitoring (depending on the module)		PSR-TBUS	2890425	50

For additional information, visit www.phoenixcontact.net/products

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Product	Code	Reference	Product link
Configuration package for the PSR-TRISAFE safety module, consisting of the SAFECONF software, connecting cable and Quick Start Guide.	2986151	PSR-SAFECONF-BOX-DE	Buy on EAN
Configuration package for the PSR-TRISAFE safety module, consisting of the SAFECONF software, connecting cable and Quick Start Guide.	2986164	PSR-SAFECONF-BOX-EN	Buy on EAN