

Configurable safety systems

With configurable safety systems from Phoenix Contact, you can adapt your safety technology so it is tailored to your needs. Use our high-performance basic modules as a stand-alone solution or extend the system flexibly with extension modules including the monitoring of motion and analog value data. Our configurable safety systems combine functionality and flexibility. At the same time, they close the gap between simple safety relays and programmable safe controllers.

i Web code: #1257



CANopen

EtherCAT

PROFINET

PROFIBUS

CC-Link

DeviceNet

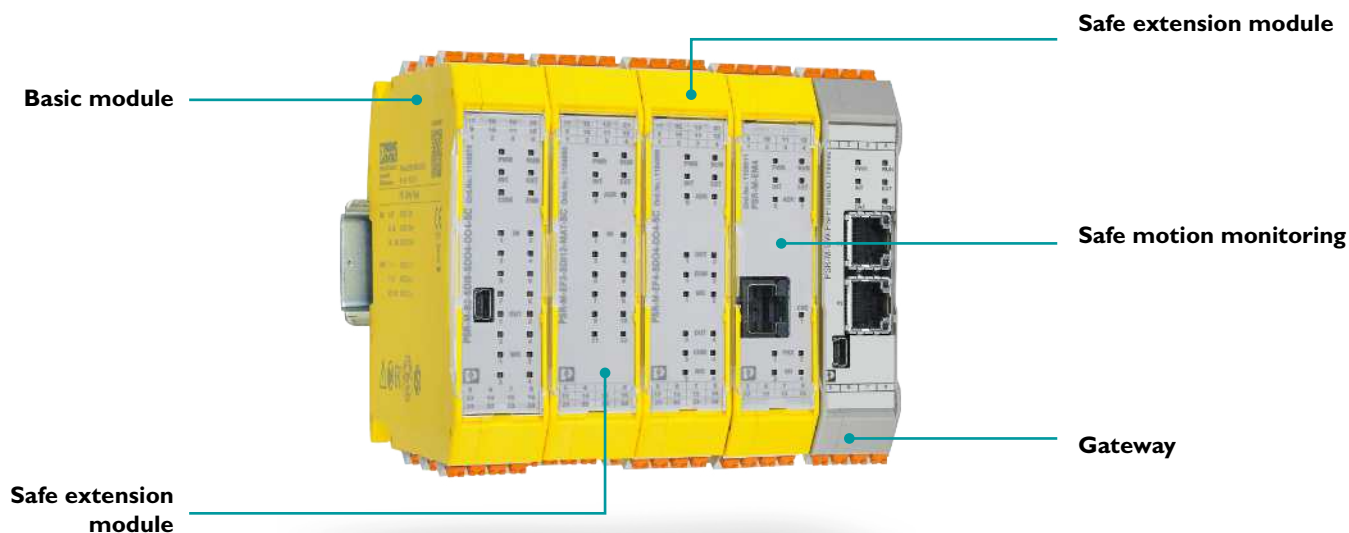
Modbus

EtherNet/IP

Your advantages

- ✓ Cost-effective safety solution with a high level of adaptability to individual requirements
- ✓ Fast startup, thanks to easy hardware and software configuration
- ✓ Minimized machine downtimes with comprehensive, easy-to-understand diagnostics

Configurable safety system for your specific application



PSRmodular safety system

PSRmodular is a flexible safety solution for monitoring your machine or system. Alongside monitoring classic safety functions such as emergency stop signals, safety door locks, light grids, and safety shut-off mats, safety functions such as speed, downtime, direction of rotation, and secure analog value monitoring can also be realized.

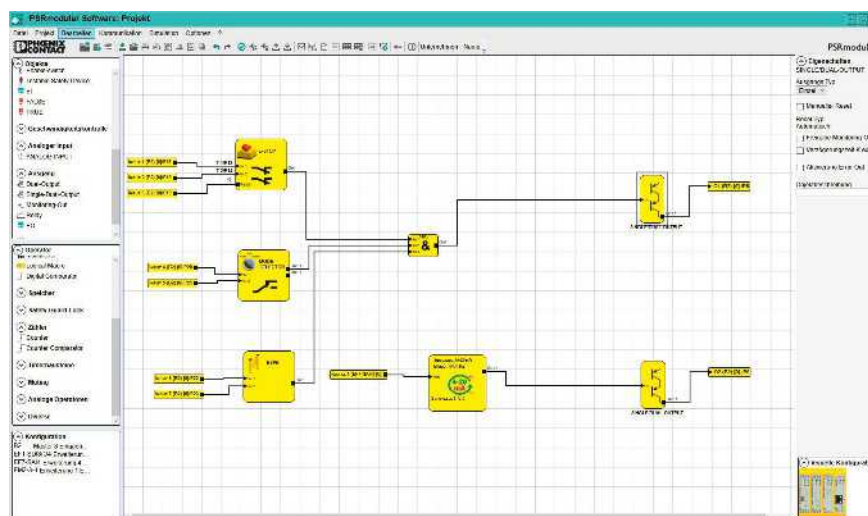
Main features

- Modular extension possible up to 160 I/Os
- Applications up to PL e or SIL 3
- TÜV-certified
- Overall width 22.5 mm
- COMPLETE line standard
- 17 extension modules
- Push-in Technology
- TBUS DIN rail connectors



Comprehensive diagnostic functions that can be configured easily

PSRmodular provides you with comprehensive function and diagnostic options, and can easily be configured without prior programming knowledge. Use our configuration software comprised of preconfigured and TÜV-certified software blocks. Design your safety system easily by drag and drop. A detailed simulation and a reporting function are available for validation.



PSRmodular
Configuration Software

Product overview

PSRmodular: Configurable safety system									
Type	Description	Inputs/outputs				Safety approvals		Connection technology	
		Inputs / EDM reset inputs	Outputs	Clock outputs	Signal outputs	PL in accordance with EN ISO 13849	SIL in accordance with EN 62061 / IEC 61508	Screw connection	Push-in connection
Basic modules									
PSR-M-B1	Basic module	8/2	2 (pair)	4	2	e	3	1104981	1104972
PSR-M-B2	Basic module (with large program memory)	8/4*	2 (pair) or 4 (single)	4	4*	e	3	1104974	1104975
Safe extension modules									
PSR-M-EF1	Failsafe extension module	8/4*	2 (pair) or 4 (single)	4	4*	e	3	1104890	1104889
PSR-M-EF2	Failsafe extension module	16	—	4	—	e	3	1104888	1104887
PSR-M-EF3	Failsafe extension module for safety shut-off mats	12	—	8	—	e	3	1104885	1104884
PSR-M-EF4	Failsafe extension module	-/4	4 pairs	—	4	e	3	1104856	1104868
PSR-M-EF5	Failsafe extension module	-/4	2 (pair) or 4 (single), each 2 A	—	8	e	3	1104976	1104977
PSR-M-EF6	Failsafe extension module	-/4	4 relays	—	—	e	3	1104982	1104983
PSR-M-EF7	Failsafe extension module	4 analog	—	—	—	e	3	1104985	1104986
PSR-M-EF8	Failsafe extension module	8/2	2 (pair)	4	2	e	3	1105522	1105523
PSR-M-E1	Non-safe extension module	—	—	—	8	—	—	1105132	1105133
PSR-M-E2	Non-safe extension module	—	—	—	16	—	—	1105134	1105136
PSR-M-TBUS1	TBUS extension module	1 connection channel for local bus extension (up to 50 m per segment)				e	3	1105095	1105096
PSR-M-TBUS2	TBUS extension module	2 connection channels for local bus extension (up to 50 m per segment)				e	3	1105097	1105098

PSRmodular: Configurable safety system

Type	Description	Safety function in accordance with EN 61800-5-2				Sensor type				Encoder interfaces	Safety approval		Connection technology	
		SOS	SLS	SSR	SDI	Proximity switch	TTL	HTL	SIN/COS		PL in accordance with EN ISO 13849	SIL in accordance with EN 62061 / IEC 61508	Screw connection	Push-in connection
														
Safe motion monitoring														
PSR-M-EM1	Motion – PROXIMITY extension module	●	●	●	–	●				–	e	3	1104987	1104988
PSR-M-EM2	Motion – TTL extension module	●	●	●	●	●	●			1	e	3	1104989	1104990
PSR-M-EM3	Motion – HTL extension module	●	●	●	●	●		●		1	e	3	1105009	1105010
PSR-M-EM4	Motion – SINCOS extension module	●	●	●	●	●			●	1	e	3	1105011	1105012
PSR-M-EM5	Motion – TTL extension module	●	●	●	●	●	●			2	e	3	1105014	1105015
PSR-M-EM6	Motion – HTL extension module	●	●	●	●	●		●		2	e	3	1105016	1105017
PSR-M-EM7	Motion – SINCOS extension module	●	●	●	●	●			●	2	e	3	1105018	1105093

* Configurable

Product overview

PSRmodular: Configurable safety system			
Type	Description	Connection technology	
		Screw connection	Push-in connection
Gateways			
PSR-M-PB	Gateway – PROFIBUS	1105099	1105100
PSR-M-PN	Gateway – PROFINET	1105101	1105102
PSR-M-DNET	Gateway – DeviceNet™	1105103	1105473
PSR-M-CAN	Gateway – CANopen®	1105104	1105105
PSR-M-ETH	Gateway – EtherNet/IP™	1105106	1105107
PSR-M-ModTCP	Gateway – Modbus/TCP	1105108	1105127
PSR-M-CCLINK	Gateway – CC-Link	1105128	1105129
PSR-M-ECAT	Gateway – EtherCAT®	1105130	1105131

PSRmodular: Accessories		
Type	Description	Order No.
PSR-M-MEMORY	Optional external memory	1105142
TBUS	DIN rail connector for basic module	2200244
PSR-M-CABLE50	Cable for TBUS extension module	1104841

PSRmodular: Configuration software		
Type	Applications	Order No.
PSRmodular	Free configuration software for the configurable PSRmodular safety system. Download at phoenixcontact.com	–