

samos[®] PRO COMPACT-PLUS Module SP-COP1x-P / SP-COP2x-P



Description

The **samos**[®] PRO COMPACT-PLUS modules offer additional to the safety standard functions safe function modules for an expanded range of application in safe automation.

Applications

- Machine building
- Presses (hydraulic and eccentric presses, ...)
- Firing systems
- Elevator systems

Features

- 20 inputs, 4 outputs (SP-COP1x)
- 16 inputs, 4 outputs, 4 configurable I/O (SP-COP2x)
- USB interface (SP-COP1x)
- USB/Ethernet interface (SP-COP2x)
- Industrial Ethernet protocol*
- SD slot for program memory (memory card SP-COP-CARD ordered separately)



Device overview | Order numbers

Type	Nominal voltage	Terminal	Order number	Std. Pack
SP-COP1-P-A	24 V DC	Screw terminals, pluggable	R1.190.1130.0	1
SP-COP1-P-C	24 V DC	Push-in terminals, pluggable	R1.190.1140.0	1
SP-COP2-EN-P-A	24 V DC	Screw terminals, pluggable	R1.190.1230.0	1
SP-COP2-EN-P-C	24 V DC	Push-in terminals, pluggable	R1.190.1240.0	1
SP-COP2-ENI-P-A	24 V DC	Screw terminals, pluggable	R1.190.1330.0	1
SP-COP2-ENI-P-C	24 V DC	Push-in terminals, pluggable	R1.190.1340.0	1

Technical data

Function	Safety control
Function display	24 LED green (in-/outputs) 4 LED green/red/yellow (module status)
Supply circuit	
Operating voltage range	16.8 V DC to 30 V DC
Rated power	3.5 W
Galvanic isolation	No
Secure input circuit I_n	
Quantity / type	max. 20 / digital
Primary voltage range	15 V DC to 30 V DC
Nominal current	2 mA
Secure output circuit Q_n	
Quantity / type	max. 8 / digital
Nominal output voltage	24 V DC
Output current I _n per output	4 A
Short-circuit protective device	Yes
Interfaces	
USB Mini interface	Yes
Ethernet interface (SP-COP2x)	Yes
Industrial Ethernet protocol*	Modbus TCP, Profinet IO and Ethernet/IP
Program memory	External
General data	
Protection class as per DIN 60529	IP20
Air and creepage distances	EN 60664-1
Operating ambient temperature	-25 °C to +65 °C
Standards	EN 61508, EN 62061, EN ISO 13849-1, EN 50156-1, EN 81-1
Approvals	TÜV, cULus

* Device type SP-COP2-ENI



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Industrial technology

Solutions for the control cabinet

- DIN rail terminal blocks
 - Screw, tension spring or push-in connection technology
 - Wire cross sections up to 300 mm²
 - Numerous special functions
 - Software solutions interfacing to CAE systems
- Safety
 - Safe signal acquisition
 - Safety switching devices
 - Modular safety modules
 - Compact safety controllers
 - Application consulting and training
- Network engineering and fieldbus systems
 - Remote maintenance via VPN industrial router and VPN service portal
 - Industrial Ethernet switches
 - PLC and I/O systems, standard and increased environmental conditions
- Interface
 - Power supply units
 - Overvoltage protection
 - Coupling relays, semiconductor switches
 - Timer relays, measuring and monitoring relays
 - Analog coupling and converter modules
 - Passive interfaces

Solutions for field applications

- Decentralized installation and automation technology
 - Electrical installation for wind tower
 - Fieldbus interfaces and motor starters
- Connectors for industrial applications
 - Rectangular and round connectors
 - Aluminum or plastic housings
 - Degree of protection up to IP69K
 - Current-carrying capacity up to 100A
 - Connectors for hazardous areas
 - Modular, application-specific technology

PC board terminals and connectors

- Screw or spring clamp connection technology
- Spacings: 3.5mm to 10.16mm
- Reflow or wave soldering process

Building and installation technology

- Building installation systems
 - Main power supply connectors IP20/ IP65 ... IP69K
 - Bus connectors
 - Low-voltage connectors
 - Power distribution system with flat cables
 - Distribution systems
 - Room automation with KNX, EnOcean, SMI and DALI
 - DIN rail terminal blocks for electrical installations
 - Overvoltage protection

Our subsidiaries



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