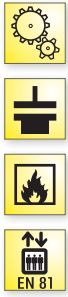


# SP-COP2

## COMPACT MODULE WITH ETHERNET



### APPLICATIONS

- Machine building industry
- Presses
- Combustion plants
- Elevators and escalators
- SIL<sub>CL</sub> 3 (EN 62061-1)
- PL e / Kategorie 4 (EN ISO 13849-1)

### MERKMALE

- 16 inputs, 4 outputs, 4 configurable I/O on basic module
- 112 safe inputs and 56 outputs with I/O extension module
- Extension with 2 external gateway modules
- Industrial Ethernet protocols on basic module
- Ethernet interface for programming
- Mini USB programming interface
- SD-Slot für Programmspeicher (Speicherkarte SP-COP-CARD separat bestellbar)
- Terminals are included in the scope of delivery

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### OVERVIEW OF DEVICES | PART NUMBERS

Type	Terminals	Remarks	Part no.	P.U.
SP-COP2-EN-A	Screw terminals, pluggable	Ethernet	R1.190.1210.0	1
SP-COP2-EN-P-A	Screw terminals, pluggable	Ethernet, PLUS: press, motion, analog	R1.190.1230.0	1
SP-COP2-EN-C	Push-in terminals, pluggable	Ethernet	R1.190.1220.0	1
SP-COP2-EN-P-C	Push-in terminals, pluggable	Ethernet, PLUS: press, motion, analog	R1.190.1240.0	1
SP-COP2-ENI-A	Screw terminals, pluggable	Industrial Ethernet	R1.190.1310.0	1
SP-COP2-ENI-P-A	Screw terminals, pluggable	Industrial Ethernet, PLUS: press, motion, analog	R1.190.1330.0	1
SP-COP2-ENI-C	Push-in terminals, pluggable	Industrial Ethernet	R1.190.1320.0	1
SP-COP2-ENI-P-C	Push-in terminals, pluggable	Industrial Ethernet, PLUS: press, motion, analog	R1.190.1340.0	1

### TECHNICAL DATA

<b>Function</b>	Safety control	
Function display	24 LED green (in-/outputs) 4 LED green/red/yellow (module status)	
<b>Supply circuit</b>		
Operating voltage range	16.8 V DC to 30 V DC	
Rated power	3.5 W	
Electrical isolation supply circuit - control circuit	No	
<b>Safe input circuit I<sub>n</sub></b>	<b>SP-COP2-EN</b>	<b>SP-COP2-ENI</b>
Quantity/type	20 (16) / digital	20 (16) / digital
Primary voltage range	15 V DC to 30 V DC	15 V DC to 30 V DC
Nominal current	2 mA	2 mA
<b>Safe output circuit Q<sub>n</sub></b>		
Quantity/type	4 (8) / digital	4 (8) / digital
Rated output voltage	24 V DC	24 V DC
Output current per output	4 A	4 A
Short-circuit protective device	Yes	Yes
<b>Interfaces</b>		
USB Mini interface	Yes	Yes
Ethernet interface	Yes	Yes
Industrial Ethernet protocol (basis module)	No	Modbus TCP, Profinet, Ethernet IP
Industrial Ethernet protocol (with gateway module)	ETHERCAT, PROFIBUS DP, CANopen	ETHERCAT, PROFIBUS DP, CANopen
Program memory	External	External
<b>General data</b>		
Protection class as per DIN EN 60529 (housing/terminals)	IP20	
Air and creepage distances	EN 60664-1	
Ambient temperature / storage temperature	-25 °C - +65 °C / -25 °C - +75 °C	
Standards	EN 61508, EN 60204, EN 62061, EN ISO 13849-1, EN 81-20/50, EN 692, EN 693, EN/IEC 61511, EN 50156-1	
Approvals	TÜV, cULus	