



4 Digital output pairs expansion modules with screw term

XPSMCMDO0004

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Range of product	Preventa Safety automation
Product or component type	Safe output expansion module
Device short name	XPSMCM
Electrical connection	Screw terminal
[Us] rated supply voltage	24 V - 2020 % DC
Number of inputs	4 digital for external device monitoring
Number of outputs	4 safety outputs OSSD for contactor/drive connection 4 configurable for diagnostic connection
Discrete input type	Isolated
Discrete output type	PNP
Function of module	Monitoring safety actuators for discrete output

Complementary

Power consumption in W	3 W
Power dissipation in W	3 W
Integrated connection type	Backplane expansion bus
Number of terminal blocks	6
Connections - terminals	2 captive screw clamp terminals, removable terminal block 1 captive screw clamp terminals, removable terminal block
Load type	Resistive load
Safety level	Can reach category 4 conforming to EN/ISO 13849-1 Can reach PL = e conforming to EN/ISO 13849-1 Can reach SIL 3 conforming to EN/IEC 61508 SILCL 3 conforming to IEC 62061
Quality labels	CE
Discrete input voltage	24 V DC
Discrete output voltage	24 V DC
Discrete output current	400 mA 100 mA
Output load	60 Ohm
Local signalling	1 LED green with PWR marking for power ON 1 LED green with RUN marking for RUN (status)

1 LED red with E IN marking for internal error 1 LED red with E EX marking for external error 2 LEDs orange with ADDR marking for node address

	4 LEDs green/red with OUT marking for output status 4 LEDs yellow with RST marking for restart signal 4 LEDs yellow with STATUS marking for output status	
Cable cross section	0.21.5 mm² - AWG 24AWG 16 flexible cablewithout cable end 0.22.5 mm² - AWG 24AWG 14 flexible cablewithout cable end 0.251 mm² - AWG 23AWG 18 flexible cablewith cable end, without bezel 0.252.5 mm² - AWG 23AWG 14 flexible cablewith cable end, with bezel 0.252.5 mm² - AWG 23AWG 14 flexible cablewith cable end, without bezel 0.51.5 mm² - AWG 20AWG 16 flexible cablewith cable end, with double bezel 0.21 mm² - AWG 24AWG 18 solid cablewithout cable end 0.22.5 mm² - AWG 24AWG 14 solid cablewithout cable end	
Mounting support	Omega 35 mm DIN rail conforming to EN 50022	
Depth	22.5 mm	
Height	99 mm	
Width	114.5 mm	
Net weight	0.25 kg	
Environment		
Standards	EN/IEC 61800-5-1 EN/ISO 13849-1 EN/IEC 61508 IEC 62061	
Product certifications	TÜV RCM cULus	
IP degree of protection	IP20 (enclosure)	
Ambient air temperature for operation	-1055 °C	
Ambient air temperature for storage	-2085 °C	
Deletion to metallic	1095 %	
Relative humidity	1055 /0	
Pollution degree	2	
Pollution degree [Uimp] rated impulse withstand	2	
Pollution degree [Uimp] rated impulse withstand voltage	2 4 kV conforming to EN/IEC 61800-5-1 DC > 99 % MTTFd < 100 years high	
Pollution degree [Uimp] rated impulse withstand voltage Safety reliability data	2 4 kV conforming to EN/IEC 61800-5-1 DC > 99 % MTTFd < 100 years high PFHd = 3.44E-9 1/h	
Pollution degree [Uimp] rated impulse withstand voltage Safety reliability data Insulation	2 4 kV conforming to EN/IEC 61800-5-1 DC > 99 % MTTFd < 100 years high PFHd = 3.44E-9 1/h 250 V AC between power supply and housing conforming to EN/IEC 61800-5-1	
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Pollution degree [Uimp] rated impulse withstand voltage Safety reliability data Insulation Overvoltage category Electromagnetic compatibility	2 4 kV conforming to EN/IEC 61800-5-1 DC > 99 % MTTFd < 100 years high PFHd = 3.44E-9 1/h 250 V AC between power supply and housing conforming to EN/IEC 61800-5-1 II Electrostatic discharge immunity test - test level: 6 kV (on contact) conforming to EN/IEC 61000-4-2 Electrostatic discharge immunity test - test level: 20 kV (on air) conforming to EN/IEC 61000-4-2 Susceptibility to electromagnetic fields - test level: 10 V/m (801000 MHz) conforming to EN/IEC 61000-4-3 Susceptibility to electromagnetic fields - test level: 30 V/m (1.4 GHz2 GHz) conforming to EN/IEC 61000-4-3	
Pollution degree [Uimp] rated impulse withstand voltage Safety reliability data Insulation Overvoltage category Electromagnetic compatibility Vibration resistance	2 4 kV conforming to EN/IEC 61800-5-1 DC > 99 % MTTFd < 100 years high PFHd = 3.44E-9 1/h 250 V AC between power supply and housing conforming to EN/IEC 61800-5-1 II Electrostatic discharge immunity test - test level: 6 kV (on contact) conforming to EN/IEC 61000-4-2 Electrostatic discharge immunity test - test level: 20 kV (on air) conforming to EN/IEC 61000-4-2 Susceptibility to electromagnetic fields - test level: 10 V/m (801000 MHz) conforming to EN/IEC 61000-4-3 Susceptibility to electromagnetic fields - test level: 30 V/m (1.4 GHz2 GHz) conforming to EN/IEC 61000-4-3 +/-0.35 mm (f= 1055 Hz) conforming to EN/IEC 61496-1	
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Unit Type of Package 2	S01	
Number of Units in Package 2	6	
Package 2 Height	15.0 cm	
Package 2 Width	15.0 cm	
Package 2 Length	40.0 cm	
Package 2 Weight	1.768 kg	
Offer Sustainability		
Sustainable offer status	Green Premium product	
REACh Regulation	REACh Declaration	
REACh free of SVHC	Yes	
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration	
Mercury free	Yes	
China RoHS Regulation	China RoHS declaration	
RoHS exemption information	Yes	
Environmental Disclosure	Product Environmental Profile	
Circularity Profile	End of Life Information	
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins	
PVC free	Yes	

California proposition 65

WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

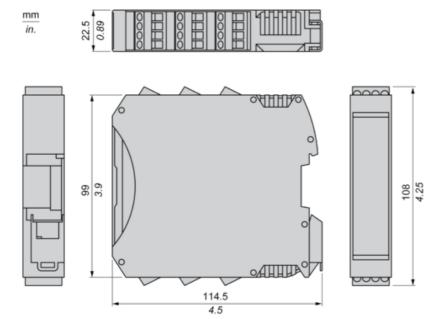
Product data sheet

XPSMCMDO0004

Dimensions Drawings

Dimensions

Screw Terminal



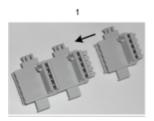
Product data sheet

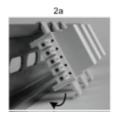
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Mounting and Clearance

Mounting Safety Controller CPU with Module(s)

Mount BackPlane Connector on Rail



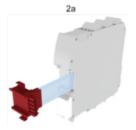




- 1 : Connect as much Backplane Connector as module to be install.
- 2 : Fix the connectors to the rail (Top first).

Mount Safety Controller CPU with Other Module(s)







- 1 : Mount controller CPU and modules on rail.
- 2 : Make sure that the controller CPU or the module(s) are plugged on the BackPlane connector.

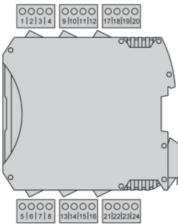
Product data sheet

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Connections and Schema

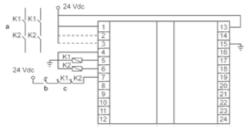
Wiring

Terminal Designation



Terminal	Description
1	24 Vdc power supply
2	Node selection
3	
4	0 Vdc power supply
5	Static output 1
6	
7	Feedback/Restart 1
8	digital output
9	Static output 2
10	
11	Feedback/Restart 2
12	digital output
13	24 Vdc power supply
14	24 Vdc power supply
15	0 Vdc power supply
16	
17	Static output 4
18	
19	Feedback/Restart 4
20	digital output
21	Static output 3
22	
23	Feedback/Restart 3
24	digital output

Wiring Example



a : Contactorsb : Restartc : Feedback

Recommended replacement(s)