

Product data sheet

Specifications



expansion modules, Modicon MCM, 2 digital output pairs, screw

XPSMCMDO0002

Main

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 - 20...20 % DC
Input type	2 digital for external device monitoring
Output type	2 safety outputs OSSD for contactor/drive connection 2 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	4
Connections - terminals	2 captive screw clamp terminals, removable terminal block 1 captive screw clamp terminals, removable terminal block
Load type	Resistive load
Group of channels	2 dual channel for load 400mA/output
Safety level	Can reach category 4 conforming to ISO 13849-1 Can reach PL = e conforming to ISO 13849-1 Can reach SIL 3 conforming to 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

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

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 2 LEDs green/red with OUT marking for output status 2 LEDs yellow with RST marking for restart signal 2 LEDs yellow with STATUS marking for output status
Cable cross section	0.2...1.5 mm ² - AWG 24...AWG 16 flexible cable without cable end 0.2...2.5 mm ² - AWG 24...AWG 14 flexible cable without cable end 0.25...1 mm ² - AWG 23...AWG 18 flexible cable with cable end, without bezel 0.25...2.5 mm ² - AWG 23...AWG 14 flexible cable with cable end, with bezel 0.25...2.5 mm ² - AWG 23...AWG 14 flexible cable with cable end, without bezel 0.5...1.5 mm ² - AWG 20...AWG 16 flexible cable with cable end, with double bezel 0.2...1 mm ² - AWG 24...AWG 18 solid cable without cable end 0.2...2.5 mm ² - AWG 24...AWG 14 solid cable without cable end
Mounting support	Omega 35 mm DIN rail conforming to EN 50022
Depth	22.5 mm
Height	99 mm
Width	114.5 mm
Product weight	0.23 kg

Environment

Standards	ISO 13849-1 IEC 61800-5-1 IEC 62061 IEC 61508
Product certifications	TÜV cULus RCM
IP degree of protection	IP20 (enclosure)
Ambient air temperature for operation	-10...55 °C
Ambient air temperature for storage	-20...85 °C
Relative humidity	10...95 %
Pollution degree	2
[U_{imp}] rated impulse withstand voltage	4 kV conforming to IEC 61800-5-1
Safety reliability data	DC > 99 % MTTF _d < 100 years high PFH _d = 3.16E-9 1/h
Insulation	250 V AC between power supply and housing conforming to IEC 61800-5-1
Overvoltage category	II
Electromagnetic compatibility	Electrostatic discharge immunity test - test level: 6 kV (on contact) conforming to IEC 61000-4-2 Electrostatic discharge immunity test - test level: 20 kV (on air) conforming to IEC 61000-4-2 Susceptibility to electromagnetic fields - test level: 10 V/m (80...1000 MHz) conforming to IEC 61000-4-3 Susceptibility to electromagnetic fields - test level: 30 V/m (1.4 GHz...2 GHz) conforming to IEC 61000-4-3
Vibration resistance	+/-0.35 mm (f= 10...55 Hz) conforming to IEC 61496-1
Shock resistance	10 gn (duration = 16 ms) for 1000 shocks on each axis conforming to IEC 61496-1
service life	20 year(s)

Packing Units

Unit Type of Package 1	PCE
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Number of Units in Package 1	1
Package 1 Height	4.2 cm
Package 1 Width	12.4 cm
Package 1 Length	16.2 cm
Package 1 Weight	228.0 g
Unit Type of Package 2	S03
Number of Units in Package 2	26
Package 2 Height	30.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	6.501 kg



Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

Environmental footprint

Total lifecycle Carbon footprint	115
Environmental Disclosure	Product Environmental Profile

Use Better

Materials and Substances

Packaging made with recycled cardboard	No
Packaging without single use plastic	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
REACH Regulation	REACH Declaration
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
PVC free	Yes

Use Again

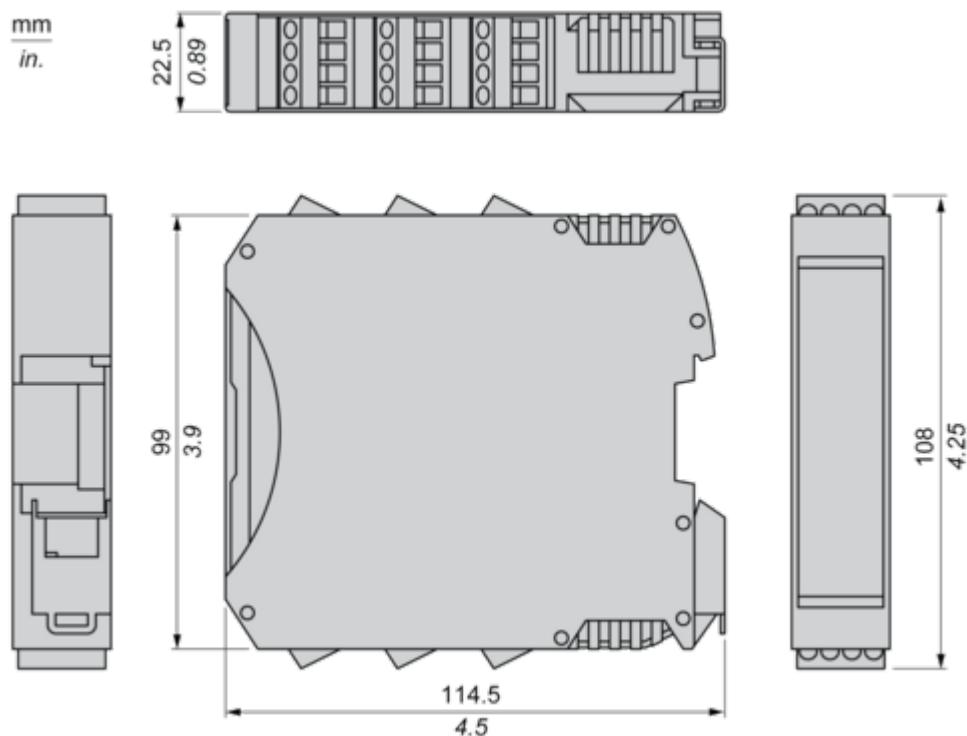
Repack and remanufacture

End of life manual availability	End of Life Information
Take-back	No
WEEE Label	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Dimensions Drawings

Dimensions

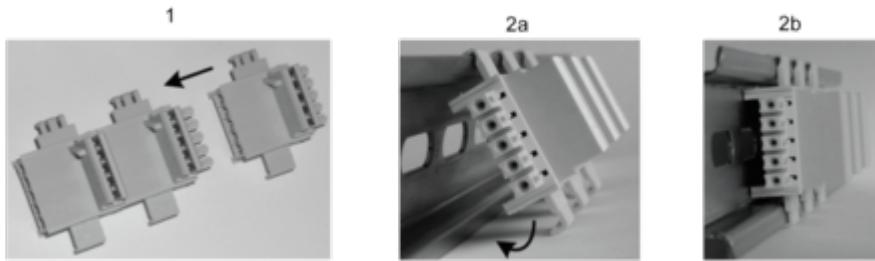
Screw Terminal



Mounting and Clearance

Mounting Safety Controller CPU with Module(s)

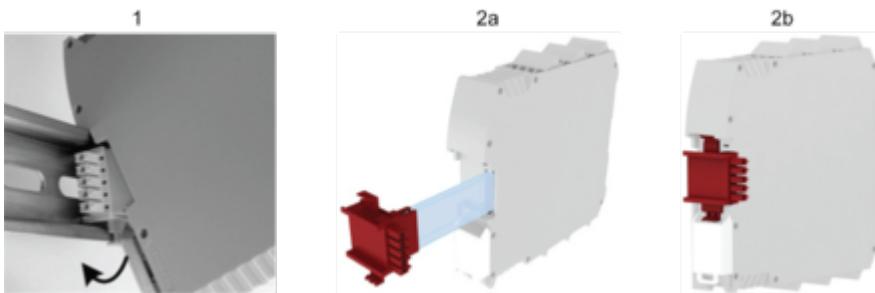
Mount BackPlane Connector on Rail



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)



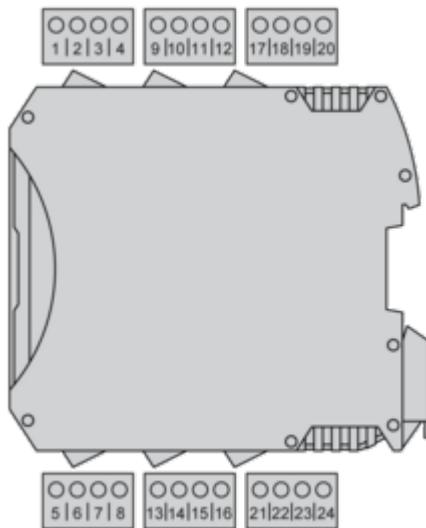
1 : Mount controller CPU and modules on rail.

2 : Make sure that the controller CPU or the module(s) are plugged on the BackPlane connector.

Connections and Schema

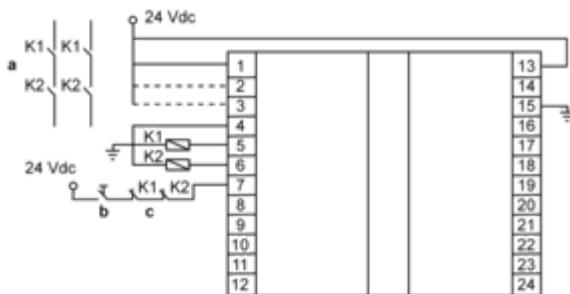
Wiring

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	Condition of outputs 1A/1B	
9	Static output 2	
10		
11	Feedback/Restart 2	
12	Condition of outputs 2A/2B	
13	24 Vdc power supply	
14	-	
15	0 Vdc power supply	
16	-	

Wiring Example



a : Contractors

b : Restart

c : Feedback