Product data sheet

Specifications

expansion module, Modicon MCM, 4 safety relay outputs, with backplane connection, screw

XPSMCMRO0004

Main

Range of product	Preventa Safety automation
Product or component type	Safe relay output module
Device short name	XPSMCM
Electrical connection	Screw terminal
[Us] rated supply voltage	24 V - 20...20 % DC
Number of outputs	4 relay
Discrete output number	8 solid state at 125 mA (diagnostics)
Function of module	Monitoring safety actuators for relay output

Complementary

Maximum power dissipation in W	3 W
Integrated connection type	Backplane expansion bus
Switching voltage	10 V DC
Associated fuse rating	3.5 A, slow-blow
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
Output type	Relay, 4 NO circuit(s), volt-free
Quantity per set	1
Switching time	12 ms
Maximum switching voltage	400 V AC 250 V DC
minimum switching current	20 mA
Maximum switching current	6 A
Number of terminal blocks	4
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 RELAY K1...K4 marking for relay contact 4 LEDs yellow with RST marking for reset
Connections - terminals	2 captive screw clamp terminals, removable terminal block 1 captive screw clamp terminals, removable terminal block

Cable cross section	0.2…1.5 mm² - AWG 24...AWG 16 flexible cablewithout cable end 0.2…2.5 mm² - AWG 24...AWG 14 flexible cablewithout cable end 0.25…1 mm² - AWG 23...AWG 18 flexible cablewith cable end, without bezel 0.25…2.5 mm² - AWG 23...AWG 14 flexible cablewith cable end, with bezel 0.25…2.5 mm² - AWG 23...AWG 14 flexible cablewith cable end, without bezel 0.5…1.5 mm² - AWG 20...AWG 16 flexible cablewith cable end, with double bezel 0.2…1 mm² - AWG 24...AWG 18 solid cablewithout cable end 0.2…2.5 mm² - AWG 24...AWG 14 solid cablewithout cable end
Mounting support	Omega 35 mm DIN rail conforming to EN 50022
Width	22.5 mm
Height	99 mm
Depth	114.5 mm
Product weight	0.3 kg

Environment

Standards	IEC 62061 ISO 13849-1 IEC 61800-5-1 IEC 61508
Product certifications	TÜV RCM cULus
IP degree of protection	IP20
Ambient air temperature for operation	-10…55 °C
Ambient air temperature for storage	-20…85 °C
Relative humidity	10…95 %
Pollution degree	2
[Uimp] rated impulse withstand voltage	4 kV conforming to IEC 61800-5-1
Safety reliability data	B10d = 300000 utilisation category AC-15 230 V, , <3 A conforming to ISO 13849-1 B10d = 750000 utilisation category AC-15 230 V, , <1 A conforming to ISO 13849-1 B10d = 10000000 utilisation category DC-13 24 V, , <2 A conforming to ISO 13849-1
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 for 16 ms (1000 shocks on each axis) conforming to IEC 61496-1
Electrical durability	20000000 cycles
Mechanical durability	20000000 cycles
service life	20 year(s)

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.2 cm

Package 1 Width	12.5 cm
Package 1 Length	16.1 cm
Package 1 Weight	294.0 g
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	1.991 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 >

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

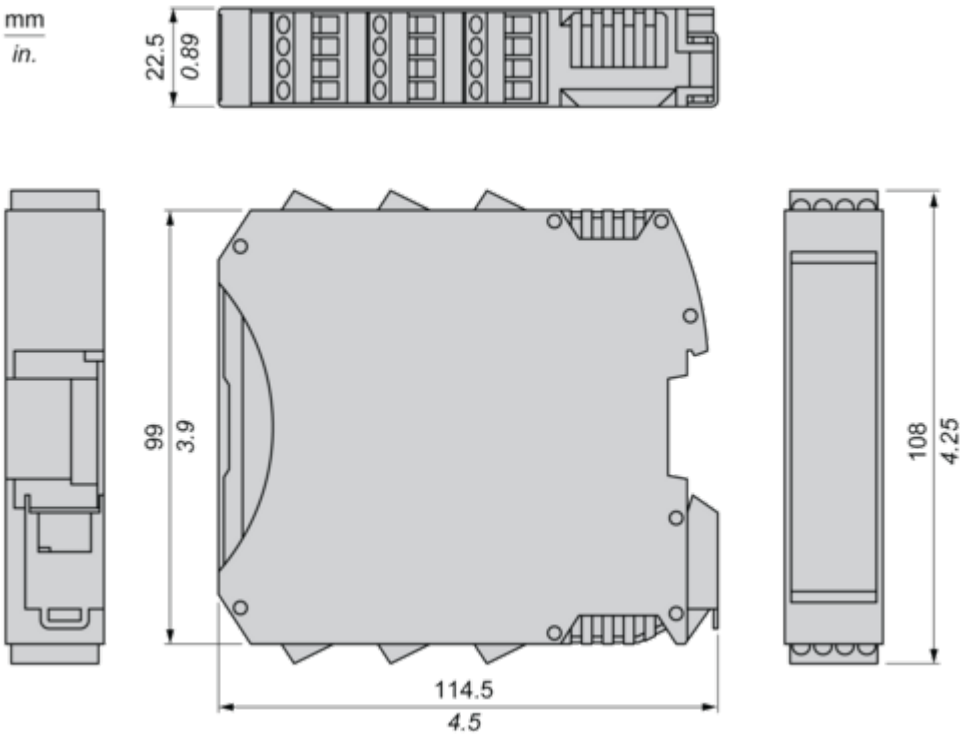
Repack and remanufacture

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

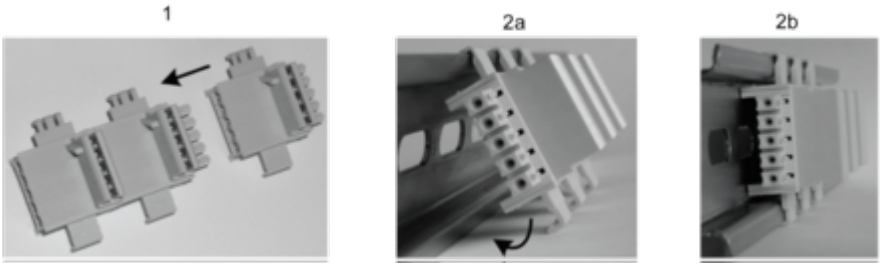
Screw Terminal



Mounting and Clearance

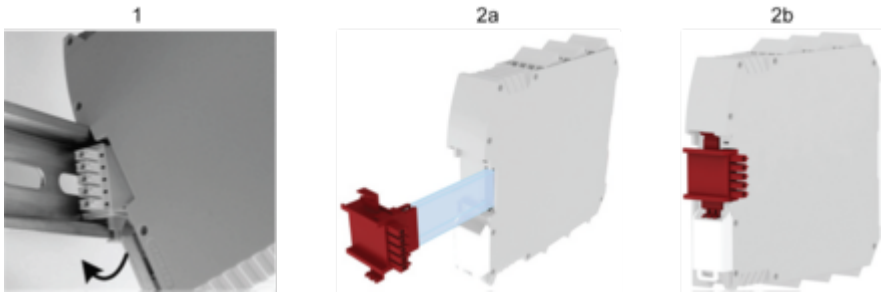
Mounting Safety Controller CPU with Module(s)

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)

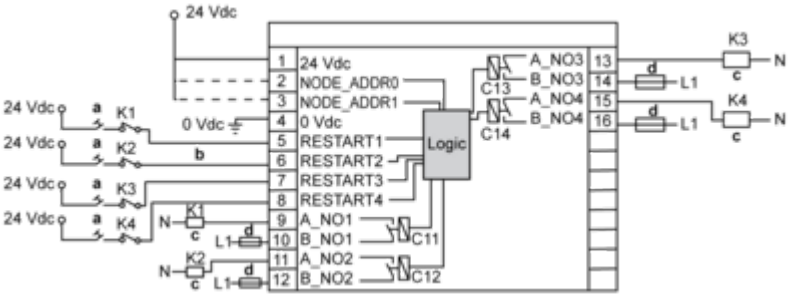


1 : Mount controller CPU and modules on rail.
2 : Make sure that the controller CPU or the module(s) are plugged on the BackPlane connector.

Connections and Schema

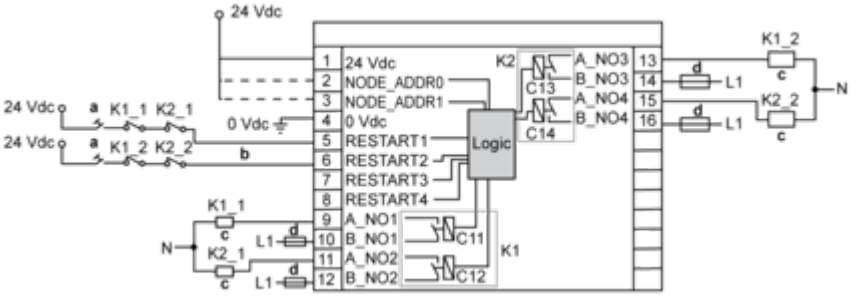
Wiring

Category 2 Wiring



a : Restart
b : Feedback
c : Load
d : Fuse

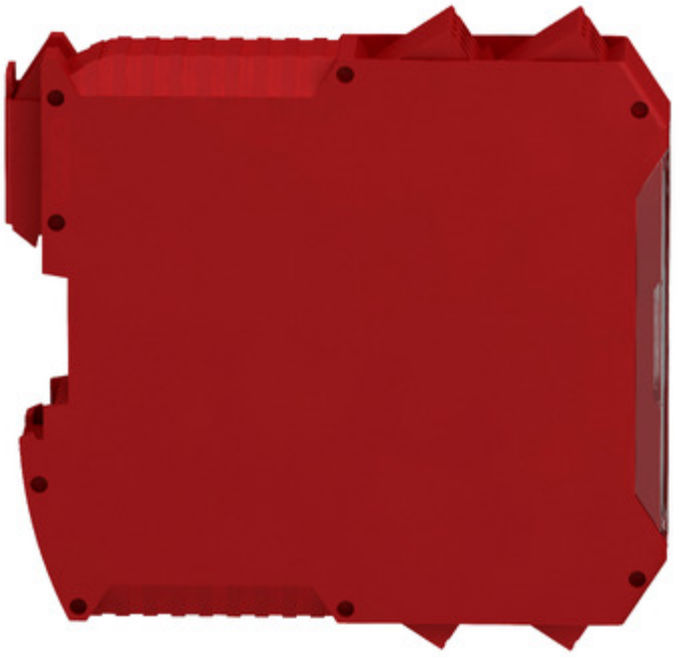
Category 4 Wiring



a : Restart
b : Feedback
c : Load
d : Fuse

Image of product / Alternate images

Alternative




PREVENTA
PWR
RUN
E IN
E EX
ADDR
0
1
R04
RELAY
1
2
RST
1
2
RELAY
3
4
RST
3
4
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