Product data sheet

Specifications



expansion module, Modicon MCM, 8 inputs 2 output pairs, screw

XPSMCMMX0802

Product availability: Stock - Normally stocked in distribution facility

Main

Range of Product	Preventa Safety automation
Product or Component Type	Safe mixed I/O expansion module
Device short name	XPSMCM
Electrical Connection	Screw terminal
[Us] rated supply voltage	24 V - 20...20 % DC
Input type	8 digital 2 digital external device monitoring
Output type	4 test line control 2 safety outputs OSSD contactor/drive connection 2 configurable diagnostic connection
Discrete input type	Isolated
Discrete output type	PNP
Function of module	Monitoring safety detection discrete input Monitoring safety dialogue discrete input Monitoring safety actuators 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 ISO 13849-1 Can reach PL = e ISO 13849-1 Can reach SIL 3 IEC 61508 SILCL 3 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

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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 PWR power ON 1 LED green RUN RUN (status) 1 LED red E IN internal error 1 LED red E EX external error 2 LEDs orange ADDR node address 8 LEDs yellow IN input status 2 LEDs green/red OUT output status 2 LEDs yellow RST restart signal 2 LEDs yellow STATUS output status
Cable cross section	0.0003…0.002 in² (0.2…1.5 mm²) - 24 AWG...16 AWG flexible without cable end 0.0003…0.004 in² (0.2…2.5 mm²) - 24 AWG...14 AWG flexible without cable end 0.0004…0.002 in² (0.25…1 mm²) - 23 AWG...18 AWG flexible with cable end, without bezel 0.0004…0.004 in² (0.25…2.5 mm²) - 23 AWG...14 AWG flexible with cable end, with bezel 0.0004…0.004 in² (0.25…2.5 mm²) - 23 AWG...14 AWG flexible with cable end, without bezel 0.0008…0.002 in² (0.5…1.5 mm²) - 20 AWG...16 AWG flexible with cable end, with double bezel 0.0003…0.002 in² (0.2…1 mm²) - 24 AWG...18 AWG solid without cable end 0.0003…0.004 in² (0.2…2.5 mm²) - 24 AWG...14 AWG solid without cable end
Mounting support	Omega 35 mm DIN rail EN 50022
Depth	0.9 in (22.5 mm)
Height	3.9 in (99 mm)
Width	4.5 in (114.5 mm)
Net Weight	0.55 lb(US) (0.25 kg)

Environment

Standards	IEC 61800-5-1 IEC 61508 ISO 13849-1 IEC 62061
Product Certifications	cULus TÜV RCM
IP degree of protection	IP20 enclosure)
Ambient air temperature for operation	14…131 °F (-10…55 °C)
Ambient air temperature for storage	-4…185 °F (-20…85 °C)
Relative Humidity	10…95 %
Pollution degree	2
[Uimp] rated impulse withstand voltage	4 kV IEC 61800-5-1
Safety reliability data	DC > 99 % MTTFd < 100 years high PFHd = 5.72E-9 1/h
Insulation	250 V AC between power supply and housing 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 16 ms) 1000 shocks on each axis IEC 61496-1
Service Life	20 year(s)

Ordering and shipping details

Category	US1SAF222477
Discount Schedule	SAF2
GTIN	3606480748851
Returnability	Yes
Country of origin	IT

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	1.732 in (4.400 cm)
Package 1 Width	4.803 in (12.200 cm)
Package 1 Length	6.299 in (16.000 cm)
Package weight(Lbs)	8.854 oz (251.000 g)
Unit Type of Package 2	S01
Number of Units in Package 2	6
Package 2 Height	5.906 in (15.000 cm)
Package 2 Width	5.906 in (15.000 cm)
Package 2 Length	15.748 in (40.000 cm)
Package 2 Weight	3.880 lb(US) (1.760 kg)

Contractual warranty

Warranty (in months)	18

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	**161 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**17 kg CO2 eq.**
Carbon footprint of the distribution phase [A4]	**0 kg CO2 eq.**
Carbon footprint of the installation phase [A5]	**0.2 kg CO2 eq.**
Carbon footprint of the use phase [B2, B3, B4, B6]	**144 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**0.3 kg CO2 eq.**

Use Better

Materials and Substances

Packaging made with recycled cardboard	**No**
Packaging without single use plastic	**Yes**
EU RoHS Directive	**Compliant**
REACh Regulation	**Free of Substances of Very High Concern above the threshold**
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

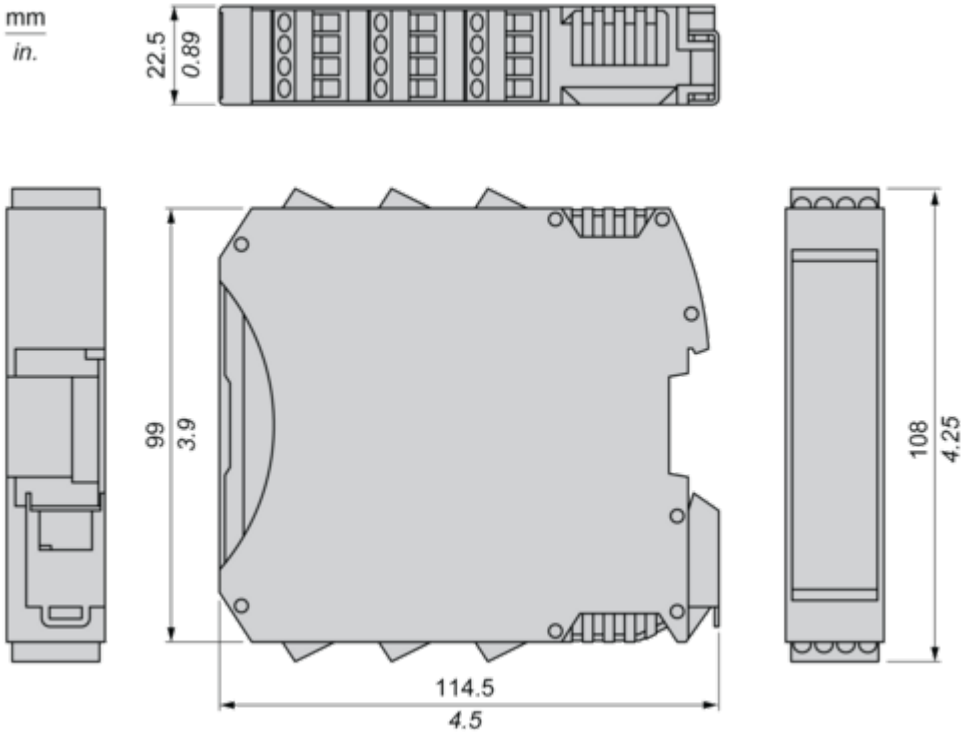
Repack and remanufacture

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

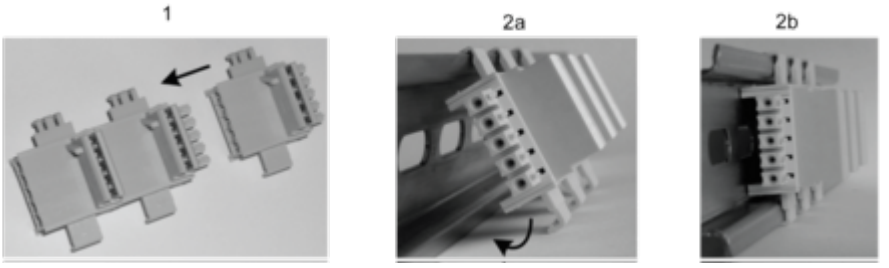
Screw Terminal



Mounting and Clearance

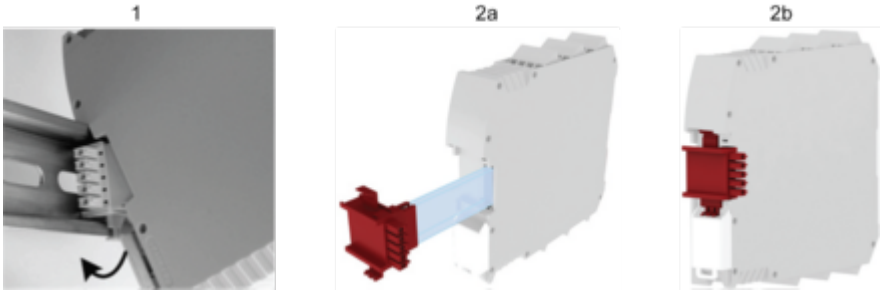
Mounting Safety Controller CPU with Module(s)

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)

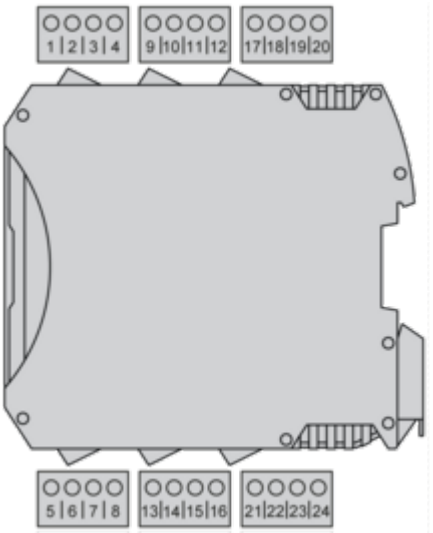


1 : Mount controller CPU and modules on rail.
2 : Make sure that the controller CPU or the module(s) are plugged on the BackPlane connector.

Connections and Schema

Wiring

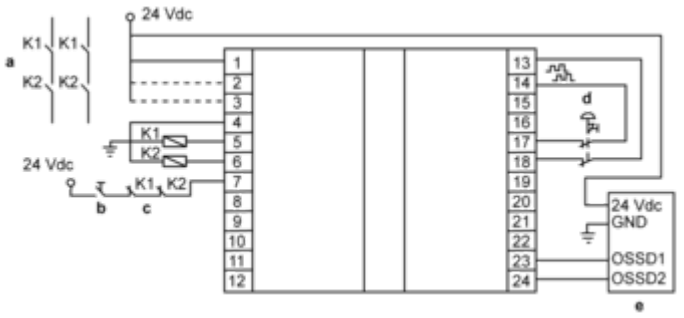
Terminal Designation



Terminal	Signal	Description
1	24 VDC	24 Vdc power supply
2	NODE_ADDR0	Node selection
3	NODE_ADDR1	
4	0 VDC	0 Vdc power supply
5	OSSD1_A	Static output 1
6	OSSD1_B	
7	RESTART1	Feedback/Restart 1
8	OUT_STATUS 1	Programmable digital output
9	OSSD2_A	Static output 2
10	OSSD2_B	
11	RESTART2	Feedback/Restart 2
12	OUT_STATUS 2	Programmable digital output
13	OUT_TEST1	Short circuit detected output
14	OUT_TEST2	
15	OUT_TEST3	
16	OUT_TEST4	

Terminal	Signal	Description
17	INPUT1	Digital input 1
18	INPUT2	Digital input 2
19	INPUT3	Digital input 3
20	INPUT4	Digital input 4
21	INPUT5	Digital input 5
22	INPUT6	Digital input 6
23	INPUT7	Digital input 7
24	INPUT8	Digital input 8

Wiring Example

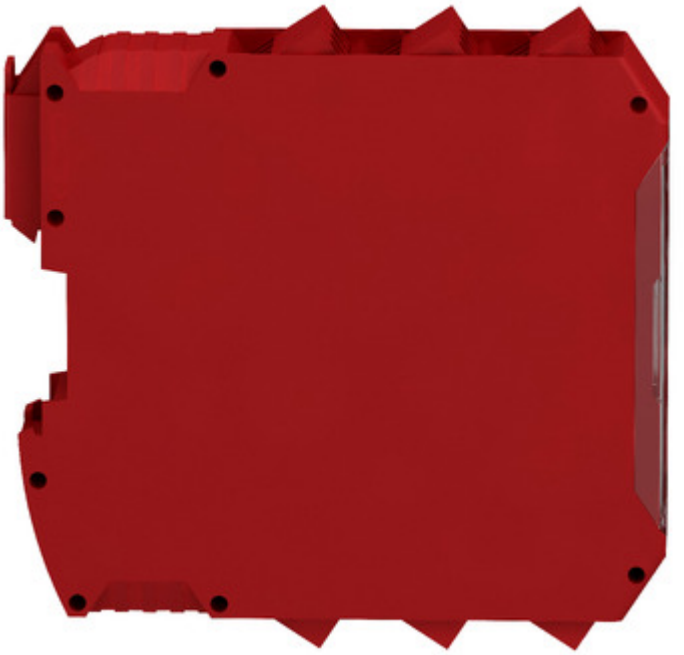


a : Contactors
b : Restart
c : Feedback
d : Emergency stop
e : Light curtain

Image of product / Alternate images

Alternative










PREVENTA
PWR RUN
E IN E EX
ADDR
0 1
MX0802
IN
1 2
3 4
5 6
7 8
OUT
1 2
RST
1 2
STATUS
1 2
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