



## Main

Range of Product	Modicon MCM
Product or Component Type	Safe communication expansion module
Device short name	XPSMCM
[Us] rated supply voltage	24 V - 20...20 % DC

## Complementary

Power dissipation in W	3 W
Safety level	Can reach category 4 ISO 13849-1 Can reach PL = e ISO 13849-1 Can reach SIL 3 IEC 61508 Can reach SILCL 3 IEC 62061
Quality labels	CE
Range Compatibility	Preventa XPSMCM
Connector type	4 ways RS485
Number of port	2
Communication port protocol	RS485
Current Consumption	0.125 mA
Maximum cable distance between devices	164.04 ft (50 m)
Local signalling	LED green PWR power ON LED green RUN operating LED red E IN internal error LED red E EX external error
Connections - terminals	4 captive screw clamp terminals, removable terminal block
Cable cross section	0.00...0.00 In <sup>2</sup> (0.2...1.5 mm <sup>2</sup> ) - AWG 24...AWG 16 flexible without cable end 0.00...0.00 In <sup>2</sup> (0.2...2.5 mm <sup>2</sup> ) - AWG 24...AWG 14 flexible without cable end 0.00...0.00 In <sup>2</sup> (0.25...1 mm <sup>2</sup> ) - AWG 23...AWG 18 flexible with cable end, without bezel 0.00...0.00 In <sup>2</sup> (0.25...2.5 mm <sup>2</sup> ) - AWG 23...AWG 14 flexible with cable end, with bezel 0.00...0.00 In <sup>2</sup> (0.25...2.5 mm <sup>2</sup> ) - AWG 23...AWG 14 flexible with cable end, without bezel 0.00...0.00 In <sup>2</sup> (0.5...1.5 mm <sup>2</sup> ) - AWG 20...AWG 16 flexible with cable end, with double bezel 0.00...0.00 In <sup>2</sup> (0.2...1 mm <sup>2</sup> ) - AWG 24...AWG 18 solid without cable end 0.00...0.00 in <sup>2</sup> (0.2...2.5 mm <sup>2</sup> ) - AWG 24...AWG 14 solid without cable end
Mounting support	Omega 35 mm DIN rail EN 50022
Width	0.89 in (22.5 mm)
Height	3.90 in (99 mm)
Depth	4.51 in (114.5 mm)
Net Weight	0.66 lb(US) (0.3 kg)

## Environment

Product Certifications	cULus[RETURN]RCM[RETURN]TÜV
IP Degree of Protection	IP20
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
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 10...55 Hz)IEC 61496-1
Shock resistance	10 gn 16 ms) 1000 shocks on each axis IEC 61496-1
Operating altitude	6561.68 ft (2000 m)
Service Life	20 year(s)




## Ordering and shipping details

Category	22477-SAFETY MODULES (PREVENTA)
Discount Schedule	SAF2
GTIN	3606480748523
Returnability	Yes
Country of origin	IT

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1.77 in (4.5 cm)
Package 1 Width	4.92 in (12.5 cm)
Package 1 Length	6.34 in (16.1 cm)
Package 1 Weight	7.72 oz (219.0 g)
Unit Type of Package 2	S03
Number of Units in Package 2	26
Package 2 Height	11.81 in (30.0 cm)
Package 2 Width	11.81 in (30.0 cm)
Package 2 Length	15.75 in (40.0 cm)
Package 2 Weight	13.66 lb(US) (6.197 kg)

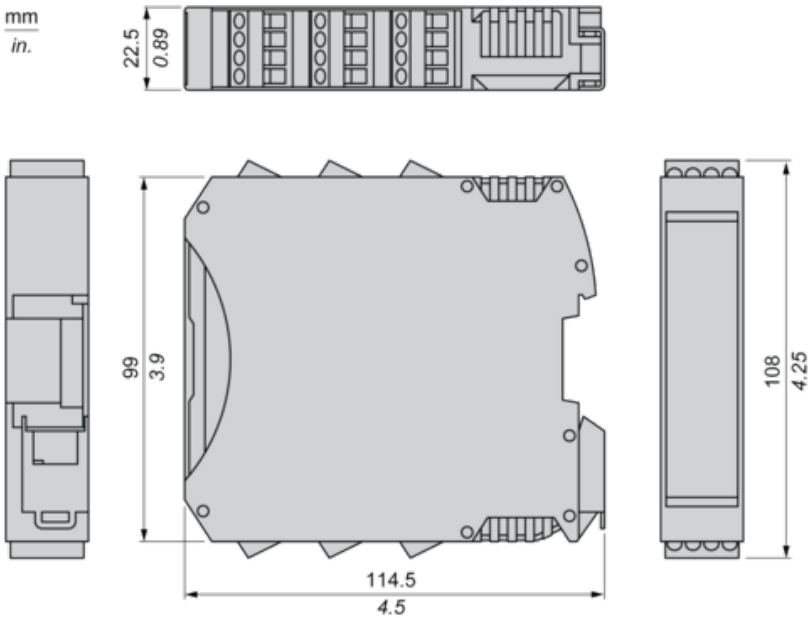
## Offer Sustainability

Sustainable offer status	Green Premium product
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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
REACH Regulation	 <a href="#">REACH Declaration</a>
REACH free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
China RoHS Regulation	 <a href="#">China RoHS Declaration</a>
RoHS exemption information	 <a href="#">Yes</a>

Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End Of Life Information</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
PVC free	Yes

Dimensions

Screw Terminal

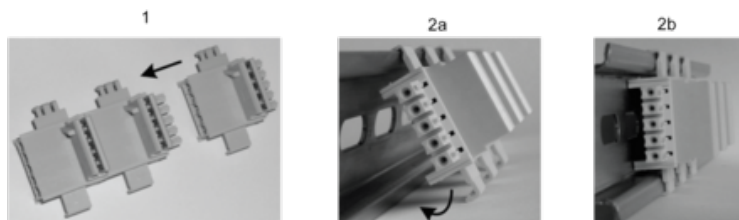


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## Mounting Safety Controller CPU with Module(s)

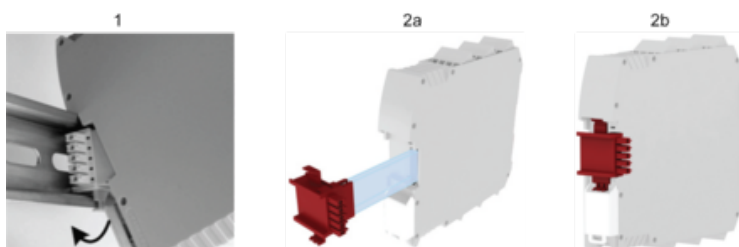
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### Mount BackPlane Connector on Rail



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

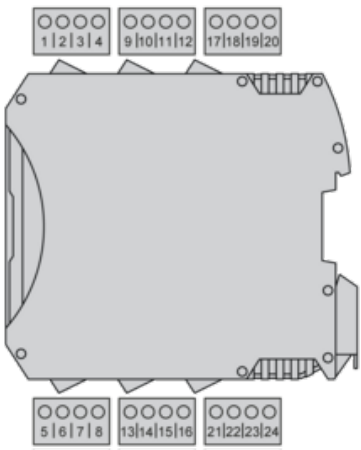
### Mount Safety Controller CPU with Other Module(s)



- 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.

Wiring

Terminal Designation



Terminal	Signal
1	24 VDC
2	not connected
3	BRAIDING CH1
4	0 VDC
5	not connected
6	not connected
7	BRAIDING CH2
8	not connected
9	CH1-A
10	CH1-B
11	CH1-C
12	CH1-D
13	CH2-A
14	CH2-B
15	CH2-C
16	CH2-D