



### Main

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

### Complementary

Power dissipation in W	3 W
Quality labels	CE
Range Compatibility	Preventa XPSMCM
Connector type	Female SUB-D 9
Number of port	1
Method of access	Server
Transmission rate	500 kbit/s 9.6 kbit/s 19.2 kbit/s 45.45 kbit/s 93.75 kbit/s 187.5 kbit/s 1.5 kbit/s 3 Mbit/s 6 Mbit/s 12 Mbit/s
Communication port protocol	Profibus DP
Current Consumption	0.125 mA
Maximum cable distance between devices	3280.84 Ft (1000 m) 328.08 Ft (100 m) 3937.01 Ft (1200 m) 1312.34 Ft (400 m) 656.17 ft (200 m)
Local signalling	LED green PWR power ON LED green RUN operating LED red E IN internal error LED red E EX external error LED green/red STS communication status LED green/red Mode connection state
Connections - terminals	2 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 RCM 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 EN/IEC 61800-5-1
Overvoltage category	II
Electromagnetic compatibility	Electrostatic discharge immunity test 6 kV on contact) EN/IEC 61000-4-2 Electrostatic discharge immunity test 20 kV on air) EN/IEC 61000-4-2 Susceptibility to electromagnetic fields 10 V/m 80...1000 MHz) EN/IEC 61000-4-3 Susceptibility to electromagnetic fields 30 V/m 1.4 GHz...2 GHz) EN/IEC 61000-4-3
Vibration resistance	+/-0.35 mm 10...55 Hz)EN/IEC 61496-1
Shock resistance	10 gn 16 ms) 1000 shocks on each axis EN/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	3606480748486
Nbr. of units in pkg.	1
Package weight(Lbs)	7.51 oz (213.0 g)
Returnability	No
Country of origin	IT

## Packing Units

Unit Type of Package 1	PCE
Package 1 Height	1.77 in (4.5 cm)
Package 1 width	5.04 in (12.8 cm)
Package 1 Length	6.38 in (16.2 cm)
Unit Type of Package 2	S01
Number of Units in Package 2	6
Package 2 Weight	3.34 lb(US) (1.515 kg)
Package 2 Height	5.91 in (15 cm)
Package 2 width	5.91 in (15 cm)
Package 2 Length	15.75 in (40 cm)

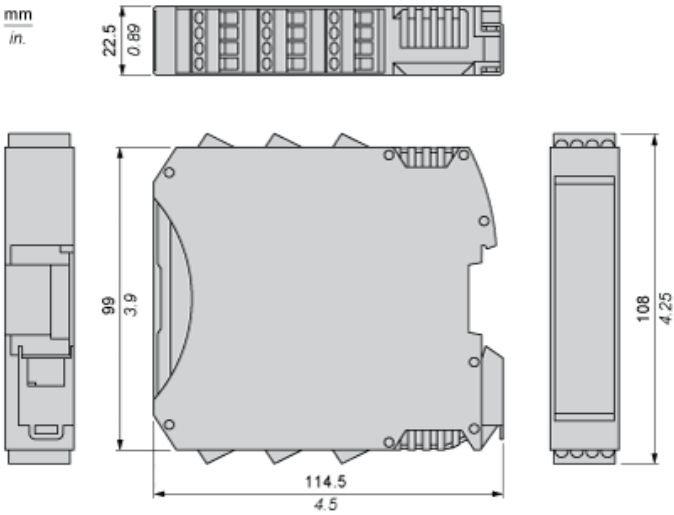
## Offer Sustainability

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)  <a href="#">EU RoHS Declaration</a>

Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS Declaration</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

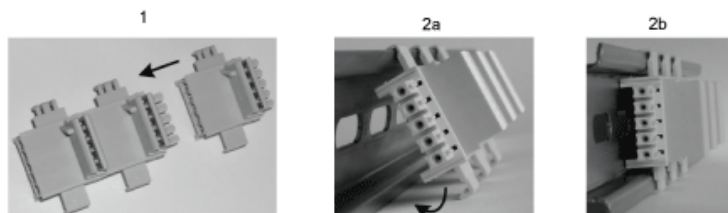


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## Mounting Safety Controller CPU with Module(s)

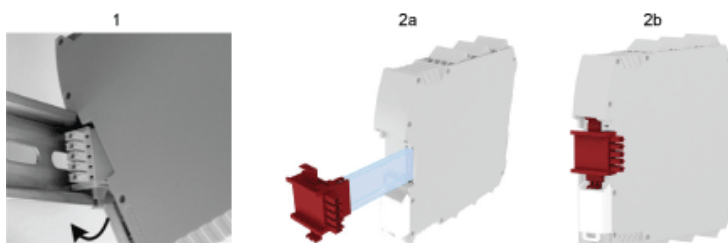
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### Mount BackPlane Connector on Rail



- 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.

Connection & Schema

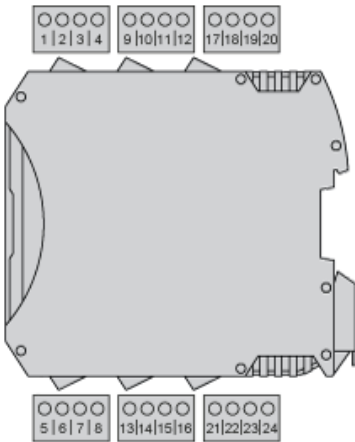
PROFIBUS DP Connector



Description	PBUS (PROFIBUS DP) standard communication device
Wiring	<p>PIN/Signal/ Description</p> <p>1/ not connected</p> <p>2/ not connected</p> <p>3 / B Line / Positive RxD/TxD, RS485 level</p> <p>4 / RTS / Request to send</p> <p>5 / GND Bus/ ground (isolated)</p> <p>6 / +5 V Bus Output / +5V termination power (isolated, short-circuit protected)</p> <p>7 / not connected</p> <p>8 / A Line /Negative RxD/TxD, RS485 level</p> <p>9 / not connected housing / cable Shield / Internally connected to the protective earth via cable shield filters according to the PROFIBUS standard</p>
Data sets	<p>Input status, input diagnostics,</p> <p>fieldbus input status, probe status,</p> <p>safety output status, safety output diagnostics</p>

Wiring

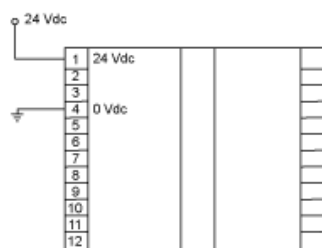
Terminal Designation



Terminal	Signal	Description
1	24 VDC	24 Vdc power supply
2	–	Not connected
3		
4	0 VDC	0 Vdc power supply
5	–	Not connected

Terminal	Signal	Description
6		
7		
8		

## Wiring Example



# Mouser Electronics

Authorized Distributor

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