

# Product datasheet

## Characteristics

# XPSMCMCO0000MBG

Modbus SL diagnostic expansion module with spring term



Price\* : 350.00 GBP



### Main

Range of product	Preventa Safety automation
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	RJ45
Number of port	1
Method of access	Slave
Transmission rate	1.2 kbit/s 2.4 kbit/s 4.8 kbit/s 9.6 kbit/s 19.2 kbit/s 38.4 kbit/s
Communication port protocol	Modbus serial
Current consumption	0.125 mA
Maximum cable distance between devices	1000 m
Local signalling	LED green with ON marking for power ON LED green with RUN marking for operating LED red with E IN marking for internal error LED red with E EX marking for external error LED green/red with NET marking for connection state LED green/red with STS marking for communication status
Number of terminals	2
Connections - terminals	1 spring clamp terminals, removable terminal block

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

	2 spring clamp terminals, removable terminal block
Cable cross section	0.2...2.5 mm <sup>2</sup> - AWG 24...AWG 14 flexible cable without cable end 0.25...2.5 mm <sup>2</sup> - AWG 23...AWG 14 flexible cable with cable end, with bezel 0.25...2.5 mm <sup>2</sup> - AWG 23...AWG 14 flexible cable with cable end, without bezel 0.2...2.5 mm <sup>2</sup> - AWG 24...AWG 14 solid cable without cable end 0.5...1 mm <sup>2</sup> - AWG 20...AWG 18 flexible cable with cable end, with double bezel
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

Product certifications	TÜV CULUS RCM
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
Insulation	250 V AC between power supply and housing conforming to EN/IEC 61800-5-1
Overvoltage category	II
Electromagnetic compatibility	Electrostatic discharge immunity test - test level: 6 kV (on contact) conforming to EN/IEC 61000-4-2 Electrostatic discharge immunity test - test level: 20 kV (on air) conforming to EN/IEC 61000-4-2 Susceptibility to electromagnetic fields - test level: 10 V/m (80...1000 MHz) conforming to EN/IEC 61000-4-3 Susceptibility to electromagnetic fields - test level: 30 V/m (1.4 GHz...2 GHz) conforming to EN/IEC 61000-4-3
Vibration resistance	+/-0.35 mm (f= 10...55 Hz) conforming to EN/IEC 61496-1
Shock resistance	10 gn (duration = 16 ms) for 1000 shocks on each axis conforming to EN/IEC 61496-1
Operating altitude	2000 m
Service life	20 year(s)

## Offer Sustainability

Sustainable offer status	Green Premium product
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

## Contractual warranty

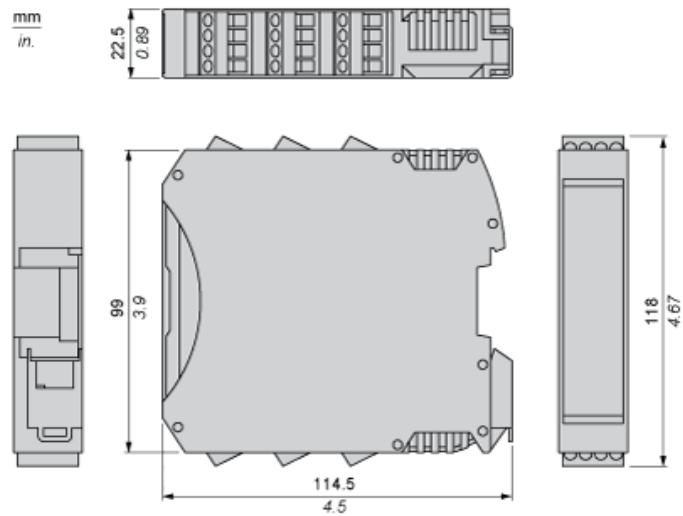
Warranty	18 months
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Dimensions

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Spring Terminal

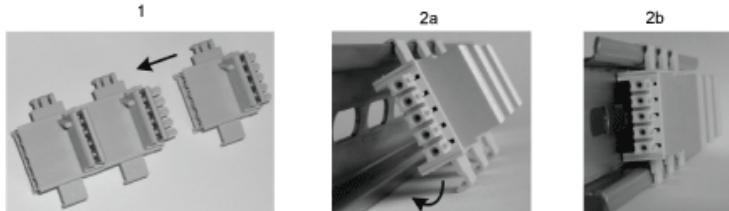


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### Mounting Safety Controller CPU with Module(s)

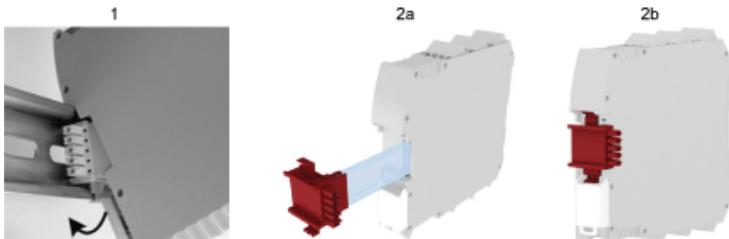
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#### Mount BackPlane Connector on Rail



- 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.

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## Connection & Schema

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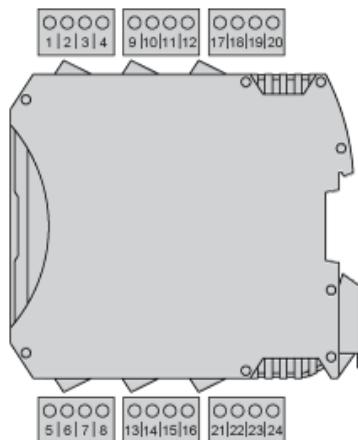
### Modbus Serial Connector



Description	MBS (Modbus Serial) standard communication device
Wiring	PIN/Signal/ Description 1/ not connected 2/ not connected 3/ not connected 4/ D1 5/ D0 6/ not connected 7/ VP (+5 Vdc) 8/ Common
Data sets	Input status, input diagnostics, fieldbus input status, probe status, safety output status, safety output diagnostics

## 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
6		
7		
8		

### Wiring Example

