Product data sheet

Specifications

Profibus DP diagnostics expansion module, Modicon MCM, spring term

XPSMCMCO0000PBG

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	1000 m 100 m 1200 m 400 m 200 m
Local signalling	LED green with PWR 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 STS marking for communication status LED green/red with Mode marking for connection state
Connections - terminals	2 spring clamp terminals, removable terminal block
Cable cross section	0.2…2.5 mm² - AWG 24...AWG 14 flexible cablewithout cable end 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 0.2…2.5 mm² - AWG 24...AWG 14 solid cablewithout cable end 0.5…1 mm² - AWG 20...AWG 18 flexible cablewith 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	cULus RCM TÜV
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)

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.5 cm
Package 1 Width	12.8 cm
Package 1 Length	16.2 cm
Package 1 Weight	213.0 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	1.514 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

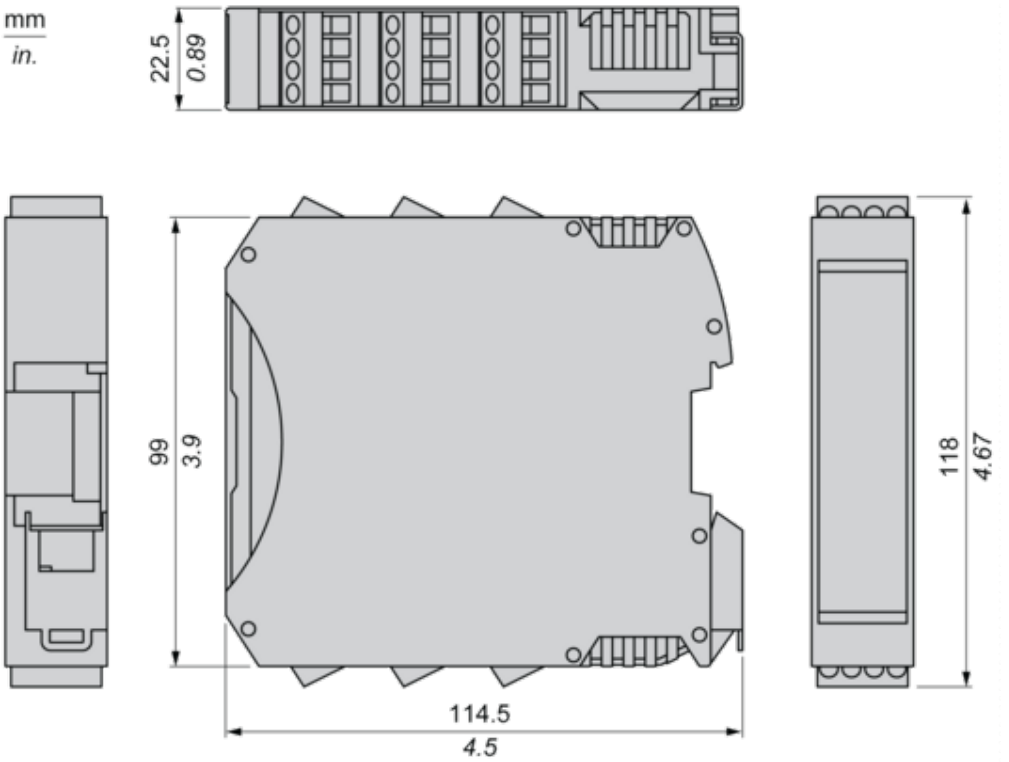
Repack and remanufacture

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

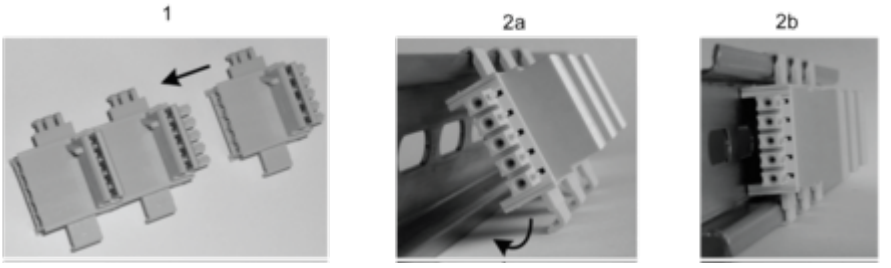
Spring Terminal



Mounting and Clearance

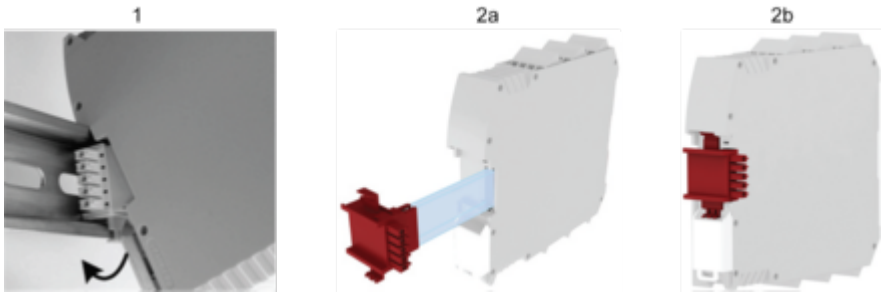
Mounting Safety Controller CPU with Module(s)

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

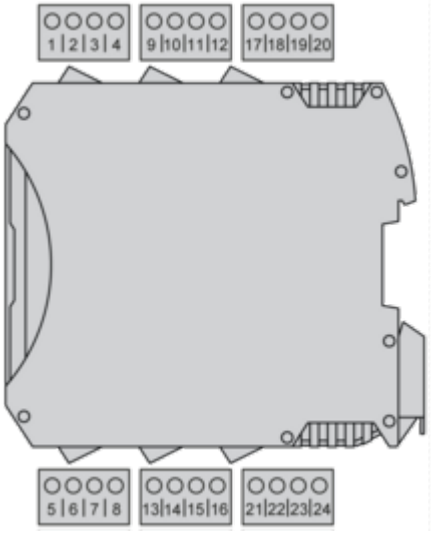
Connection & Schema

PROFIBUS DP Connector

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