

Product data sheet

Specifications



Profibus DP diagnostics expansion module, Modicon MCM, screw term

XPSMCMCO0000PB

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 captive screw clamp terminals, removable terminal block |
| Cable Cross Section | 0.2...1.5 mm² - AWG 24...AWG 16 flexible cablewithout cable end 0.2...2.5 mm² - AWG 24...AWG 14 flexible cablewithout cable end 0.25...1 mm² - AWG 23...AWG 18 flexible cablewith cable end, without bezel 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 0.5...1.5 mm² - AWG 20...AWG 16 flexible cablewith cable end, with double bezel 0.2...1 mm² - AWG 24...AWG 18 solid cablewithout cable end 0.2...2.5 mm² - AWG 24...AWG 14 solid cablewithout cable end |

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

| | |
|------------------|---|
| Mounting Support | Omega 35 mm DIN rail conforming to EN 50022 |
| Width | 22.5 mm |
| Height | 99 mm |
| Depth | 114.5 mm |
| Net 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 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 (duration = 16 ms) for 1000 shocks on each axis conforming to 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 | 1.515 kg |

Sustainability





Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)

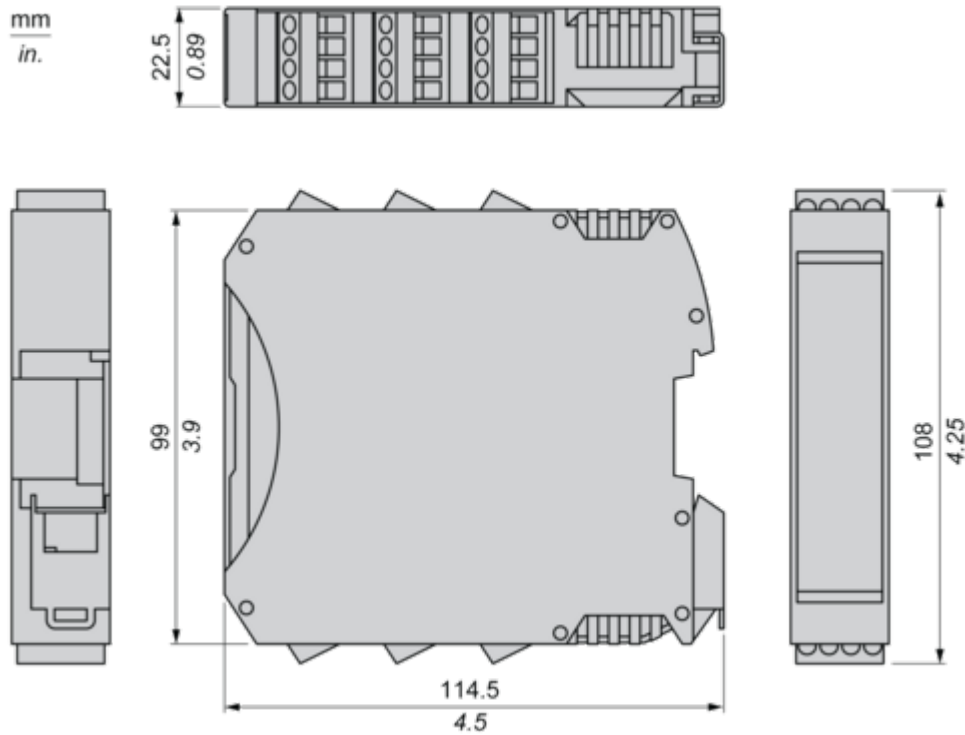
Well-being performance

| | | |
|---|---|-----|
|  | Reach Free Of Svhc | |
|  | Mercury Free | |
|  | Rohs Exemption Information | Yes |
|  | Pvc Free | |
| | | |
| Reach Regulation | REACH Declaration | |
| Eu Rohs Directive | Pro-active compliance (Product out of EU RoHS legal scope) | |
| China Rohs Regulation | China RoHS declaration | |
| Weee | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins | |
| 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 | |

Dimensions Drawings

Dimensions

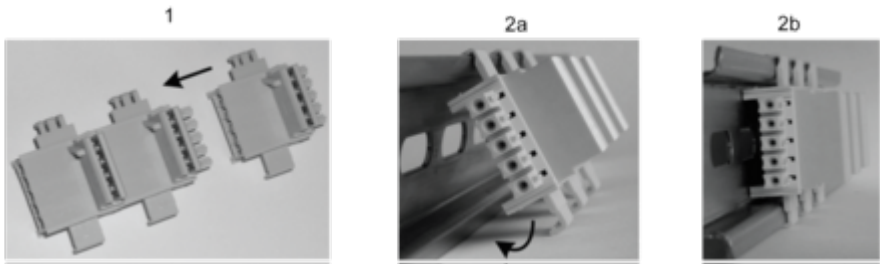
Screw Terminal



Mounting and Clearance

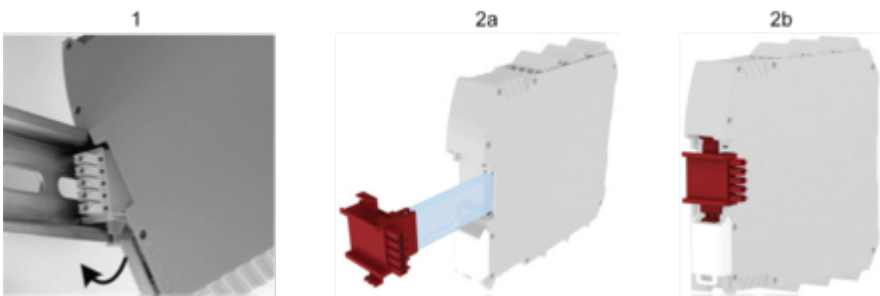
Mounting Safety Controller CPU with Module(s)

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

Connection & Schema

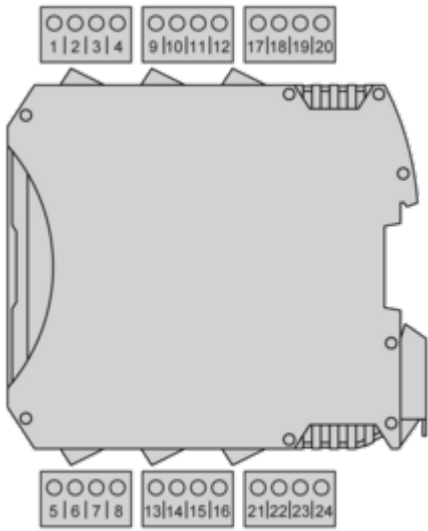
PROFIBUS DP Connector



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

Wiring

Terminal Designation



| Terminal | Signal | Description |
|----------|--------|---------------------|
| 1 | 24 VDC | 24 Vdc power supply |
| 2 | – | Not connected |
| 3 | | |
| 4 | | |
| 5 | 0 VDC | 0 Vdc power supply |
| 6 | – | Not connected |
| 7 | | |
| 8 | | |
| | | |

Wiring Example

