# Product data sheet

Specifications

## Profibus DP diagnostics expansion module, Modicon MCM, screw term

XPSMCMCO0000PB

**Product availability: Non-Stock - Not normally stocked in distribution facility**

## 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<br>9.6 kbit/s<br>19.2 kbit/s<br>45.45 kbit/s<br>93.75 kbit/s<br>187.5 kbit/s<br>1.5 kbit/s<br>3 Mbit/s<br>6 Mbit/s<br>12 Mbit/s |
| **Communication Port Protocol** | Profibus DP |
| **Current Consumption** | 0.125 mA |
| **Maximum cable distance between devices** | 3280.8 ft (1000 m)<br>328.08 ft (100 m)<br>3937.008 ft (1200 m)<br>1312.3 ft (400 m)<br>656.2 ft (200 m) |
| **Local signalling** | LED green PWR power ON<br>LED green RUN operating<br>LED red E IN internal error<br>LED red E EX external error<br>LED green/red STS communication status<br>LED green/red Mode connection state |
| **Connections - terminals** | 2 captive screw clamp terminals, removable terminal block |



Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

| | |
|---|---|
| **Cable cross section** | 0.0003…0.002 in² (0.2…1.5 mm²) - AWG 24...AWG 16 flexible without cable end<br>0.0003…0.004 in² (0.2…2.5 mm²) - AWG 24...AWG 14 flexible without cable end<br>0.0004…0.002 in² (0.25…1 mm²) - AWG 23...AWG 18 flexible with cable end, without bezel<br>0.0004…0.004 in² (0.25…2.5 mm²) - AWG 23...AWG 14 flexible with cable end, with bezel<br>0.0004…0.004 in² (0.25…2.5 mm²) - AWG 23...AWG 14 flexible with cable end, without bezel<br>0.0008…0.002 in² (0.5…1.5 mm²) - AWG 20...AWG 16 flexible with cable end, with double bezel<br>0.0003…0.002 in² (0.2…1 mm²) - AWG 24...AWG 18 solid without cable end<br>0.0003…0.004 in² (0.2…2.5 mm²) - AWG 24...AWG 14 solid without cable end |
| **Mounting support** | Omega 35 mm DIN rail EN 50022 |
| **Width** | 0.9 in (22.5 mm) |
| **Height** | 3.9 in (99 mm) |
| **Depth** | 4.5 in (114.5 mm) |
| **Product Weight** | 0.7 lb(US) (0.3 kg) |

## Environment

| | |
|---|---|
| **Product Certifications** | cULus<br>RCM<br>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<br>Electrostatic discharge immunity test - test level: 20 kV (on air) conforming to IEC 61000-4-2<br>Susceptibility to electromagnetic fields - test level: 10 V/m (80...1000 MHz) conforming to IEC 61000-4-3<br>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 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** | US1SAF222477 |
| **Discount Schedule** | SAF2 |
| **GTIN** | 3606480748486 |
| **Returnability** | No |
| **Country of origin** | IT |

## Packing Units

| | |
|---|---|
| **Unit Type of Package 1** | PCE |

| | |
|---|---|
| **Nbr. of units in pkg.** | 1 |
| **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) |
| **Package weight(Lbs)** | 7.5 oz (213.0 g) |
| **Unit Type of Package 2** | S01 |
| **Number of Units in Package 2** | 6 |
| **Package 2 Height** | 5.91 in (15.0 cm) |
| **Package 2 Width** | 5.91 in (15.0 cm) |
| **Package 2 Length** | 15.75 in (40.0 cm) |
| **Package 2 Weight** | 3.340 lb(US) (1.515 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

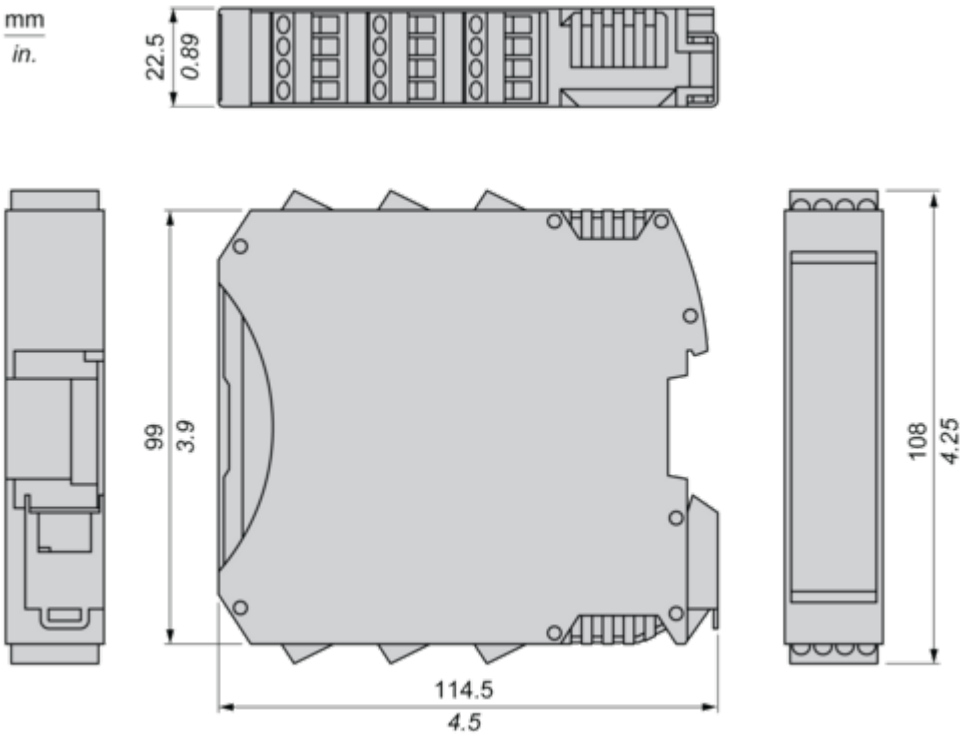
#### Repack and remanufacture

| | |
|---|---|
| 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

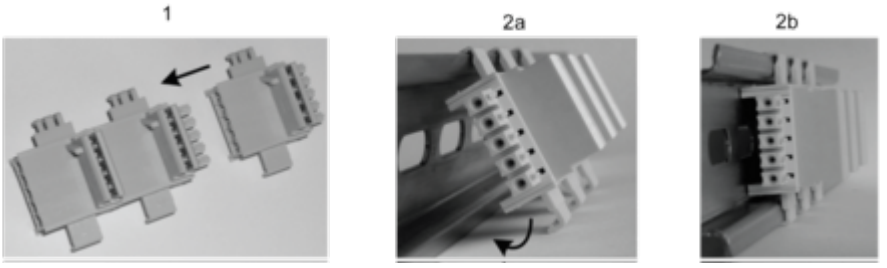
### Screw Terminal



## Mounting and Clearance

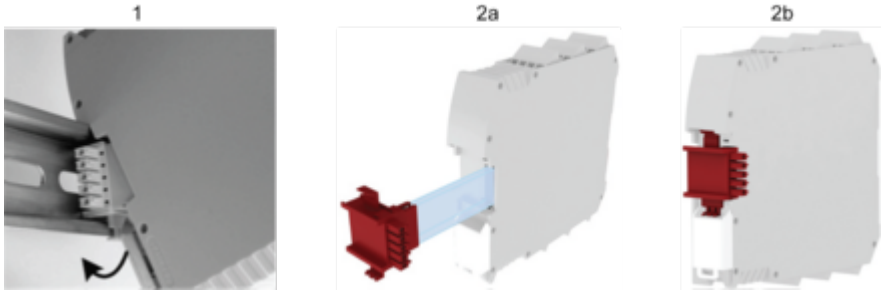
### Mounting Safety Controller CPU with Module(s)

#### 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

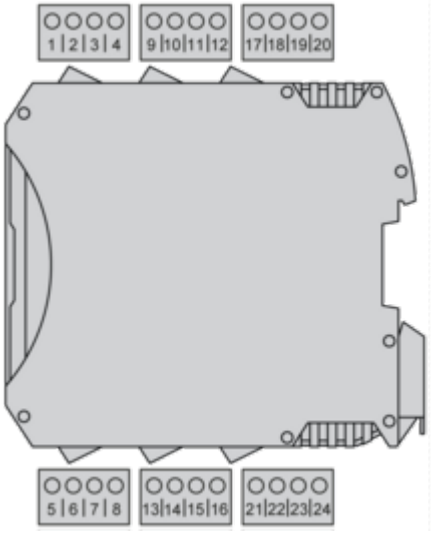
## Connection & Schema

### PROFIBUS DP Connector

| Description | PBUS (PROFIBUS DP) standard communication device |
|---|---|
| Wiring | PIN/Signal/ Description<br>1/ not connected<br>2/ not connected<br>3 / B Line / Positive RxD/TxD, RS485 level<br>4 / RTS / Request to send<br>5 / GND Bus/ ground (isolated)<br>6 / +5 V Bus Output / +5V termination power (isolated, short-circuit protected)<br>7 / not connected<br>8 / A Line /Negative RxD/TxD, RS485 level<br>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,<br>fieldbus input status, probe status,<br>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