

Product datasheet

Specifications



Speed monitoring 2 Sin/Cos encoder expansion module with screw term

Local distributor code:
407168422 XPSMCMEN0200SC

EAN Code: 3606480748769

Main

| | |
|---------------------------|------------------------------|
| Range Of Product | Preventa Safety automation |
| Product Or Component Type | Safe speed monitoring module |
| Device Short Name | XPSMCM |
| Electrical Connection | Screw terminal |
| [Us] Rated Supply Voltage | 24 V - 20...20 % DC |
| Discrete Input Voltage | 24 V DC |
| Function Of Module | Speed monitoring |

Complementary

| | |
|----------------------------|--|
| Power Consumption In W | 3 W |
| Power Dissipation In W | 3 W |
| Integrated Connection Type | Backplane expansion bus |
| Safety Level | Can reach category 4 conforming to ISO 13849-1 Can reach PL = e conforming to ISO 13849-1 Type 4 conforming to IEC 61496-1 SILCL 3 conforming to IEC 62061 |
| Quality Labels | CE |
| Number Of Terminal Blocks | 4 |
| Local Signalling | 1 LED green with PWR marking for power ON 1 LED green with RUN marking for RUN (status) 1 LED red with E IN marking for internal error 1 LED red with E EX marking for external error 2 LEDs orange with ADDR marking for node address 2 LEDs yellow with PROX marking for proximity sensors connection status 2 LEDs yellow with SH marking for speed monitoring status 2 LEDs yellow with ENC marking for encoder connection status |
| Connections - Terminals | 2 captive screw clamp terminals, removable terminal block 1 captive screw clamp terminals, removable terminal block |
| Maximum Input Frequency | 5 kHz for sensor 500 kHz for encoder SinCos |
| Sensor Type | Inductive proximity sensor |
| Electrical Connection | 1 connector RJ45 conforming to EIA/TIA-568-A |
| Cable Cross Section | 0.2...2.5 mm² - AWG 24...AWG 14 flexible cablewithout cable end 0.2...2.5 mm² - AWG 24...AWG 14 solid 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...1.5 mm² - AWG 24...AWG 16 flexible cablewithout cable end 0.25...1 mm² - AWG 23...AWG 18 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 |
| Mounting Support | Omega 35 mm DIN rail conforming to EN 50022 |

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

| | |
|------------|----------|
| Depth | 22.5 mm |
| Height | 99 mm |
| Width | 114.5 mm |
| Net Weight | 0.3 kg |

Environment

| | |
|--|---|
| Standards | IEC 61508 ISO 13849-1 IEC 61496-1 IEC 61800-5-1 IEC 62061 |
| Product Certifications | RCM cULus TÜV |
| Ip Degree Of Protection | IP20 (enclosure) |
| Ambient Air Temperature For Operation | -10...55 °C |
| Ambient Air Temperature For Storage | -20...85 °C |
| Relative Humidity | 10...95 % |
| Pollution Degree | 2 |
| [Uimp] Rated Impulse Withstand Voltage | 4 kV conforming to IEC 61800-5 |
| 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 |
| Service Life | 20 year(s) |

Packing Units

| | |
|------------------------------|----------|
| Unit Type Of Package 1 | PCE |
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 4.2 cm |
| Package 1 Width | 12.5 cm |
| Package 1 Length | 16.1 cm |
| Package 1 Weight | 236.0 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 | 1.643 kg |

Contractual warranty

| | |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

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 >](#)

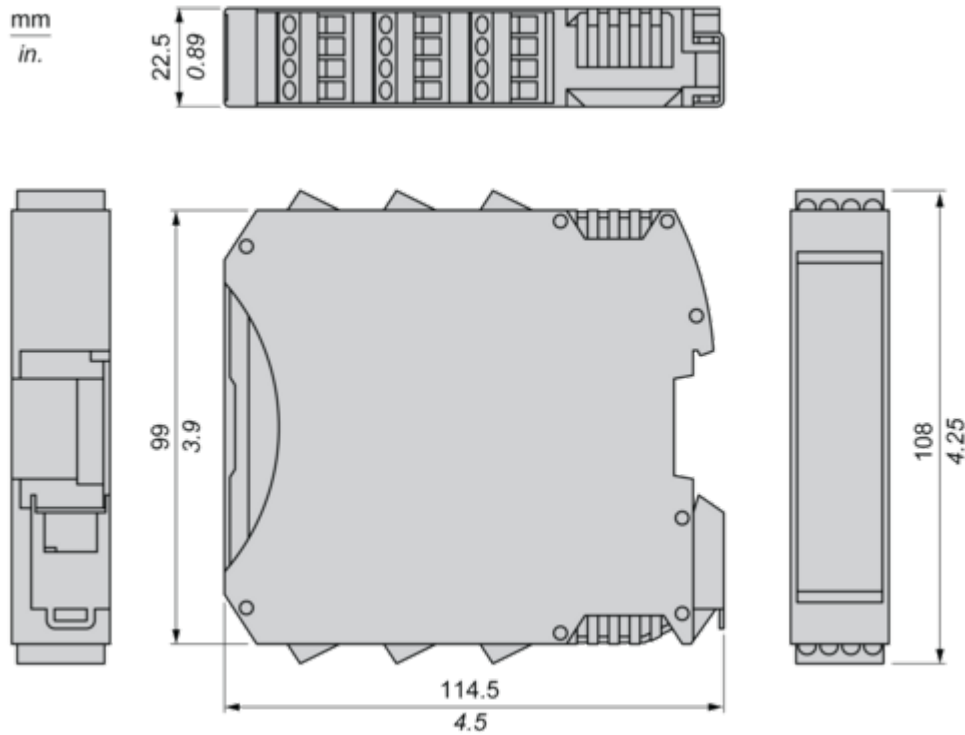
Well-being performance

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

Dimensions Drawings

Dimensions

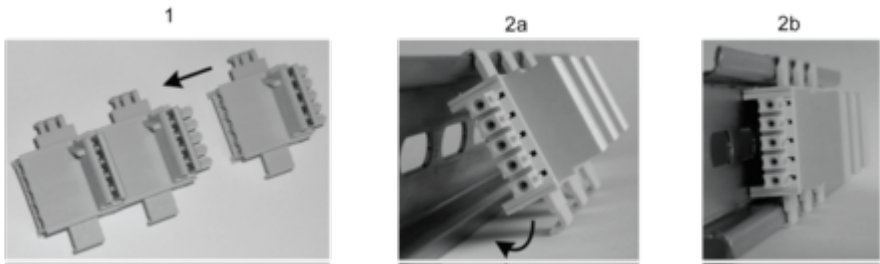
Screw Terminal



Mounting and Clearance

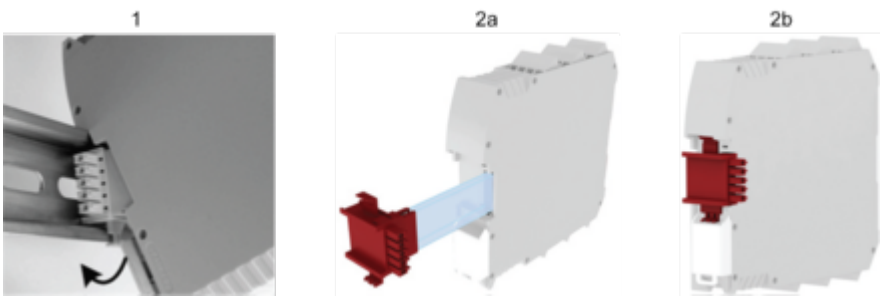
Mounting Safety Controller CPU with Module(s)

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)

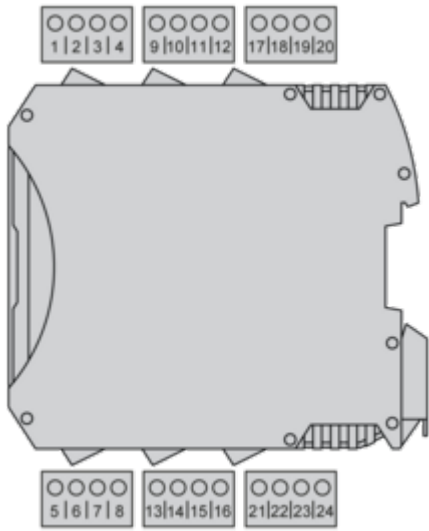


- 1 : Mount controller CPU and modules on rail.
2 : Make sure that the controller CPU or the module(s) are plugged on the BackPlane connector.

Connections and Schema

Wiring

Terminal Designation



| Terminal | Signal | Description |
|----------|---------------|-------------------------|
| 1 | 24 VDC | 24 VDC power supply |
| 2 | NODE_ADDR0 | Node selection |
| 3 | NODE_ADDR1 | |
| 4 | 0 VDC | 0 Vdc power supply |
| 5 | PROXY1_24V | PROXIMITY 1 connections |
| 6 | PROXY1_REF | |
| 7 | PROXY1_NO | |
| 8 | PROXY1_NC | |
| 9 | PROXY2_24V | PROXIMITY 2 connections |
| 10 | PROXY2_REF | |
| 11 | PROXY2_NO | |
| 12 | PROXY2_NC | |
| 13 | not connected | not connected |
| 14 | | |
| 15 | | |
| 16 | | |

