



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 | SILCL 3 conforming to IEC 62061 Can reach category 4 conforming to EN/ISO 13849-1 Can reach PL = e conforming to EN/ISO 13849-1 Type 4 conforming to EN/IEC 61496-1 |
| 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 |
| Connections - terminals | 2-wire captive screw clamp terminals, removable terminal block 1-wire captive screw clamp terminals, removable terminal block |
| Input frequency | <= 5 kHz for sensor |
| Sensor type | Inductive proximity sensor |
| Cable cross section | (0.2...2.5 mm ² flexible cable without cable end (0.2...2.5 mm ² solid cable without 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

(0.25...2.5 mm² flexible cable with cable end, with bezel
 (0.25...2.5 mm² flexible cable with cable end, without bezel
 (0.2...1.5 mm² flexible cable without cable end
 (0.25...1 mm² flexible cable with cable end, without bezel
 (0.5...1.5 mm² flexible cable with cable end, with double bezel
 (0.2...1 mm² solid cable without cable end

| | |
|------------------|---|
| Mounting support | Omega 35 mm DIN rail conforming to EN 50022 |
| Depth | 22.5 mm |
| Height | 99 mm |
| Width | 114.5 mm |
| Product weight | 0.23 kg |

Environment

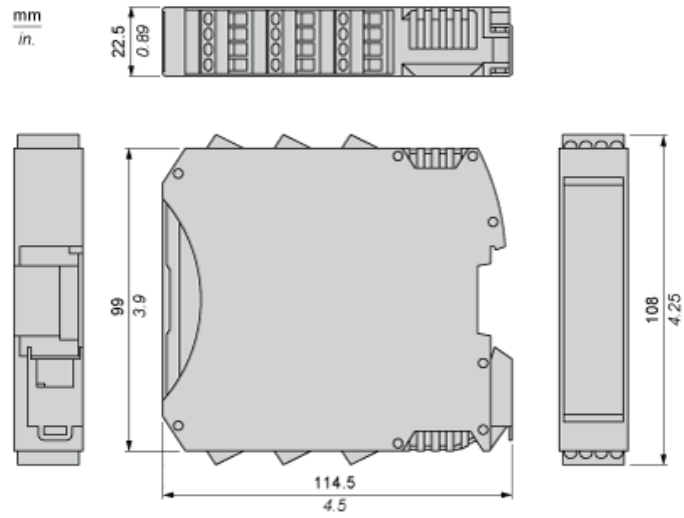
| | |
|--|---|
| Standards | EN/IEC 61496-1 EN/IEC 61508 EN/IEC 61800-5-1 EN/ISO 13849-1 IEC 62061 |
| Product certifications | CULus TÜV RCM |
| IP degree of protection | IP20 for enclosure |
| Ambient air temperature for operation | -10...55 °C |
| Ambient air temperature for storage | -20...85 °C |
| Relative humidity | 10...95 % |
| Pollution degree | 2 |
| [Uimp] rated impulse withstand voltage | 4 kV conforming to EN/IEC 61800-5 |
| 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) shocks : 1000 shocks on each axis EN/IEC 61496-1 |
| Service life | 20 yr |

Offer Sustainability

| | |
|----------------------------------|---|
| Sustainable offer status | Green Premium product |
| RoHS (date code: YYWW) | Compliant - since 1450 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity |
| REACH | Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold |
| Product environmental profile | Available |
| Product end of life instructions | Available |

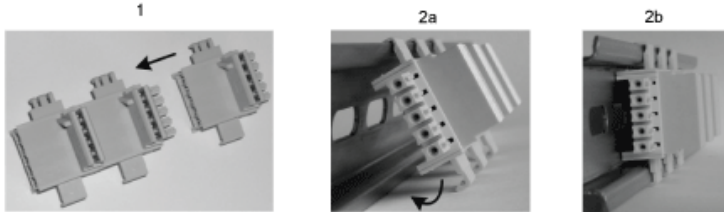
Dimensions

Screw Terminal



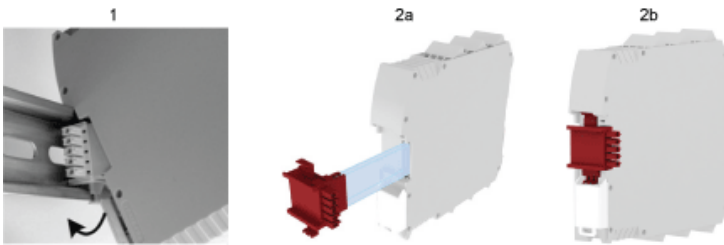
Mounting Safety Controller CPU with Module(s)

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).

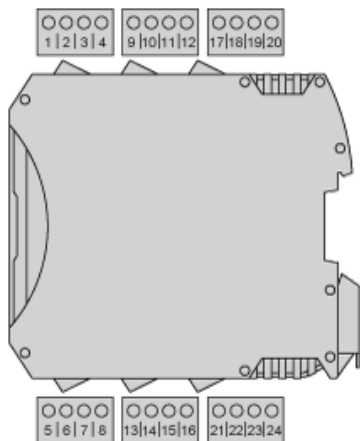
Mount Safety Controller CPU with Other Module(s)



- 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.

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 | | |