# Product data sheet

Specifications

## Speed monitoring 2 Proximity sensor expansion module with spring term

XPSMCMEN0200G

## Main

| | |
|---|---|
| Range Of Product | Preventa Safety automation |
| Product Or Component Type | Safe speed monitoring module |
| Device Short Name | XPSMCM |
| Electrical Connection | Spring 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<br>Can reach PL = e conforming to ISO 13849-1<br>Type 4 conforming to IEC 61496-1<br>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<br>1 LED green with RUN marking for RUN (status)<br>1 LED red with E IN marking for internal error<br>1 LED red with E EX marking for external error<br>2 LEDs orange with ADDR marking for node address<br>2 LEDs yellow with PROX marking for proximity sensors connection status<br>2 LEDs yellow with SH marking for speed monitoring status |
| Connections - Terminals | 1 spring clamp terminals, removable terminal block<br>2 spring clamp terminals, removable terminal block |
| Maximum Input Frequency | 5 kHz for sensor |
| Sensor Type | Inductive proximity sensor |
| Cable Cross Section | 0.2…2.5 mm² flexible cablewithout cable end<br>0.2…2.5 mm² solid cablewithout cable end<br>0.25…2.5 mm² flexible cablewith cable end, with bezel<br>0.25…2.5 mm² flexible cablewith cable end, without bezel<br>0.5…1 mm² flexible cablewith cable end, with double bezel |
| Mounting Support | Omega 35 mm DIN rail conforming to EN 50022 |
| Depth | 22.5 mm |
| Height | 99 mm |
| Width | 114.5 mm |

| Net Weight | 0.23 kg |
|---|---|

# Environment

| Standards | ISO 13849-1 |
|---|---|
| | IEC 61508 |
| | IEC 62061 |
| | IEC 61800-5-1 |
| | IEC 61496-1 |
| Product Certifications | TÜV |
| | RCM |
| | cULus |
| 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 | 4.5 cm |
| Package 1 Width | 12.7 cm |
| Package 1 Length | 16.2 cm |
| Package 1 Weight | 216.0 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 | 1.542 kg |

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# 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-$CO_2$ 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 〉
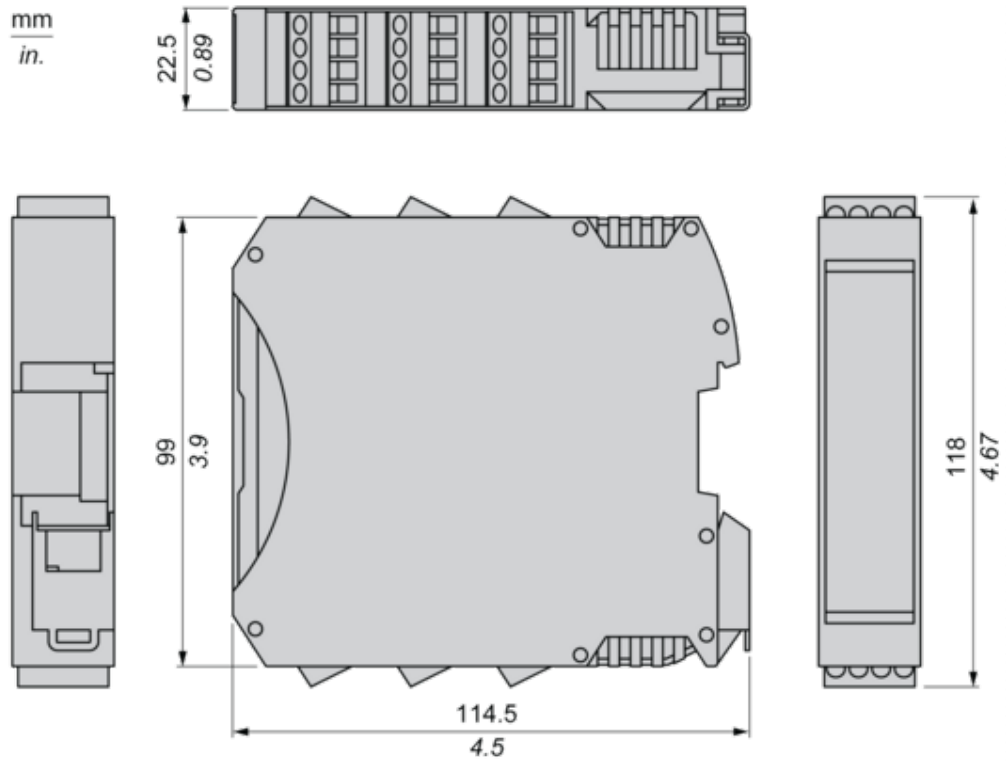
Guide to assess a product's sustainability 〉

## 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
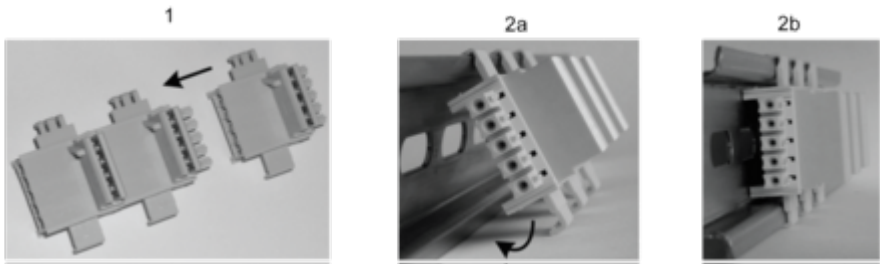
**Dimensions**

**Spring Terminal**

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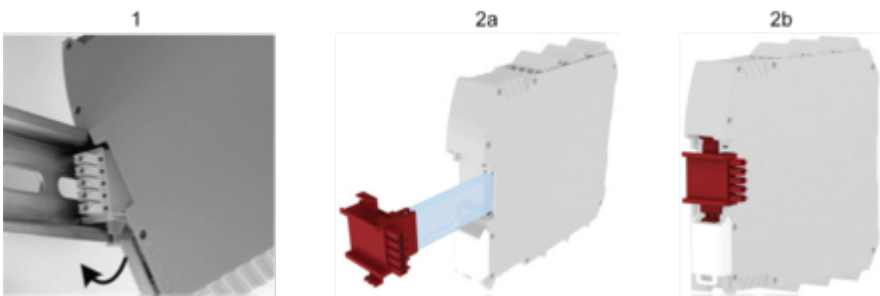
## Mounting Safety Controller CPU with Module(s)

### 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).

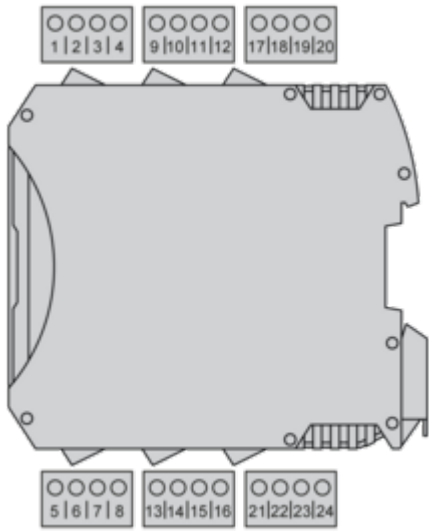### Mount Safety Controller CPU with Other Module(s)

**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

**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 | | |

Apr 25, 2024