



### Main

|                           |                               |
|---------------------------|-------------------------------|
| Range of product          | Preventa Safety automation    |
| 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                         | RJ45                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Number of port                         | 2                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Method of access                       | Slave                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Transmission rate                      | 100 Mbit/s for full duplex bus length                                                                                                                                                                                                                                                                                                                                                                                                     |
| Communication port protocol            | EtherCAT                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Current consumption                    | 0.125 mA                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Maximum cable distance between devices | 100 m                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Local signalling                       | LED green with ON marking for power ON<br>LED green with RUN marking for operating<br>LED red with E IN marking for internal error<br>LED red with E EX marking for external error<br>LED green/red with ERR marking for communication error<br>LED green/red with STS marking for operating                                                                                                                                              |
| Number of terminals                    | 2                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Connections - terminals                | 1 spring clamp terminals, removable terminal block<br>2 spring clamp terminals, removable terminal block                                                                                                                                                                                                                                                                                                                                  |
| Cable cross section                    | 0.2...2.5 mm <sup>2</sup> - AWG 24...AWG 14 flexible cablewithout cable end<br>0.25...2.5 mm <sup>2</sup> - AWG 23...AWG 14 flexible cablewith cable end, with bezel<br>0.25...2.5 mm <sup>2</sup> - AWG 23...AWG 14 flexible cablewith cable end, without bezel<br>0.2...2.5 mm <sup>2</sup> - AWG 24...AWG 14 solid cablewithout cable end<br>0.5...1 mm <sup>2</sup> - AWG 20...AWG 18 flexible cablewith cable end, with double bezel |

|                  |                                             |
|------------------|---------------------------------------------|
| Mounting support | Omega 35 mm DIN rail conforming to EN 50022 |
| Width            | 22.5 mm                                     |
| Height           | 99 mm                                       |
| Depth            | 114.5 mm                                    |
| Product weight   | 0.3 kg                                      |

## Environment

|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product certifications                | RCM<br>CULus<br>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 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<br>Electrostatic discharge immunity test - test level: 20 kV (on air) conforming to EN/IEC 61000-4-2<br>Susceptibility to electromagnetic fields - test level: 10 V/m (80...1000 MHz) conforming to EN/IEC 61000-4-3<br>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) for 1000 shocks on each axis conforming to EN/IEC 61496-1                                                                                                                                                                                                                                                                                                                                                          |
| Operating altitude                    | 2000 m                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Service life                          | 20 year(s)                                                                                                                                                                                                                                                                                                                                                                                                                                  |

## Offer Sustainability

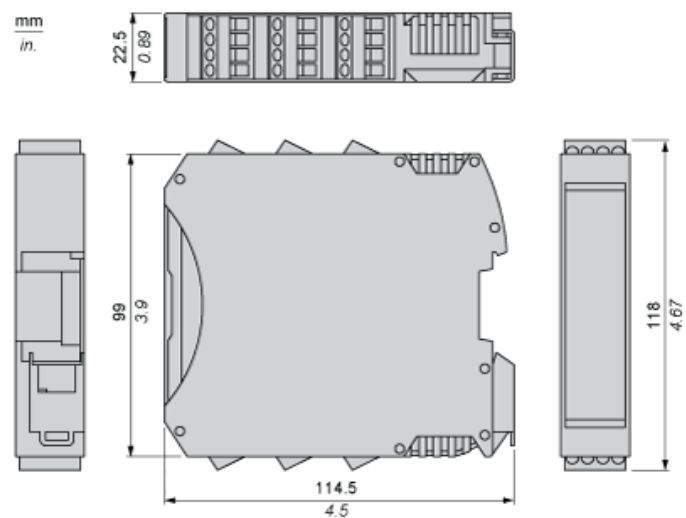
|                            |                                                                                                                             |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                       |
| REACH free of SVHC         | Yes                                                                                                                         |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope)<br><a href="#">EU RoHS Declaration</a>                           |
| Mercury free               | Yes                                                                                                                         |
| RoHS exemption information | <a href="#">Yes</a>                                                                                                         |
| China RoHS Regulation      | <a href="#">China RoHS declaration</a>                                                                                      |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>                                                                               |
| Circularity Profile        | <a href="#">End of Life Information</a>                                                                                     |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

## Contractual warranty

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

## Dimensions

### Spring Terminal

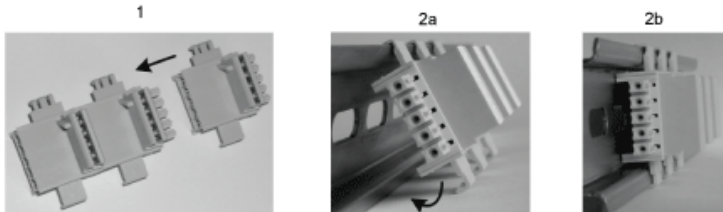


---

## Mounting Safety Controller CPU with Module(s)

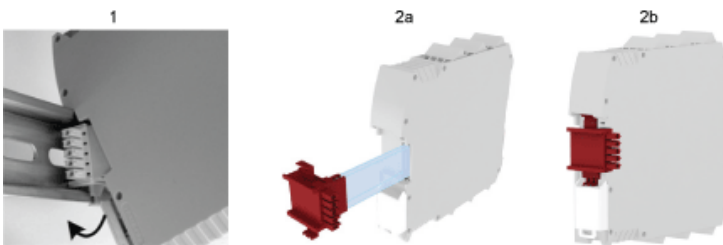
---

### 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.

Connection & Schema

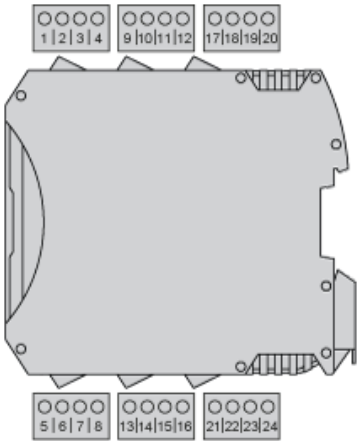
ETHERCAT Connector



|             |                                                                                                                                                                                                                |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | ECAT (ETHERCAT) standard communication device                                                                                                                                                                  |
| Wiring      | <div>PIN/ Signal</div> <div>1/ Tx+</div> <div>2/ Tx-</div> <div>3/ Rx+</div> <div>4/ not connected</div> <div>5/ not connected</div> <div>6/ Rx-</div> <div>7/ not connected</div> <div>8/ not connected</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

