



## 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                         | RJ45                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Number of port                         | 1                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Method of access                       | Server                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Transmission rate                      | 10/100 Mbit/s                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Communication port protocol            | Ethernet TCP/IP                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Current consumption                    | 0.125 mA                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Maximum cable distance between devices | 100 m                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Local signalling                       | LED green with PWR 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 NET marking for connection state<br>LED green/red with STS marking for communication status                                                                                                                                     |
| Connections - terminals                | 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                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Net weight                             | 0.3 kg                                                                                                                                                                                                                                                                                                                                                                                                                                    |

## Environment

|                                       |                                                                       |
|---------------------------------------|-----------------------------------------------------------------------|
| Product certifications                | cULus[RETURN]RCM[RETURN]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 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 (duration = 16 ms) for 1000 shocks on each axis conforming to IEC 61496-1                                                                                                                                                                                                                                                                                                                                                 |
| Operating altitude            | 2000 m                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Service life                  | 20 year(s)                                                                                                                                                                                                                                                                                                                                                                                                                      |

## Packing Units

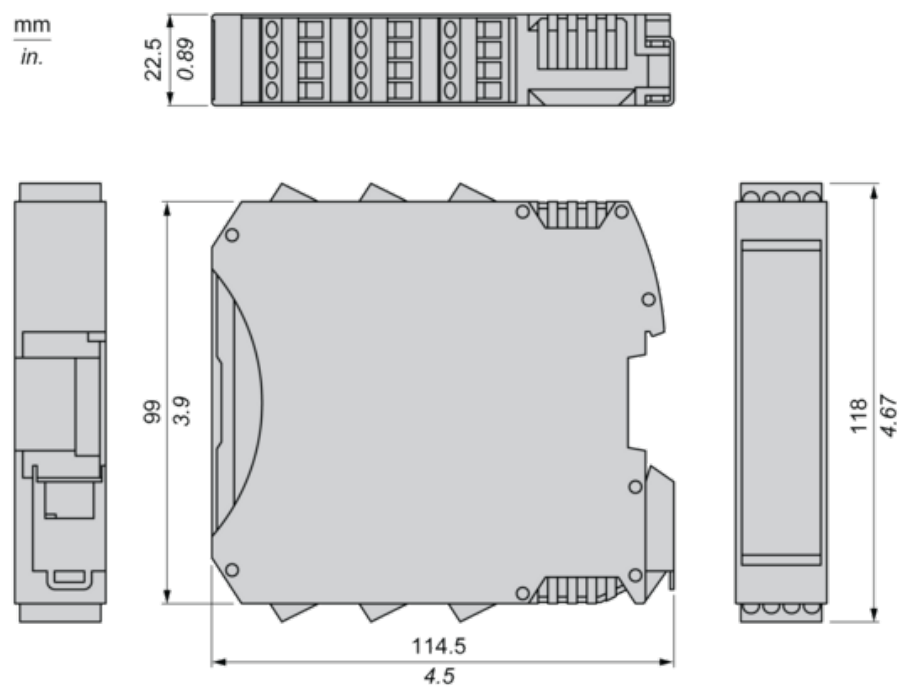
|                              |          |
|------------------------------|----------|
| Unit Type of Package 1       | PCE      |
| Number of Units in Package 1 | 1        |
| Package 1 Height             | 4.5 cm   |
| Package 1 Width              | 12.7 cm  |
| Package 1 Length             | 16.3 cm  |
| Package 1 Weight             | 209 g    |
| Unit Type of Package 2       | S01      |
| Number of Units in Package 2 | 6        |
| Package 2 Height             | 15 cm    |
| Package 2 Width              | 15 cm    |
| Package 2 Length             | 40 cm    |
| Package 2 Weight             | 1.504 kg |

## Offer Sustainability

|                            |                                                                                                                             |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| REACH Regulation           |  <a href="#">REACH Declaration</a>       |
| REACH free of SVHC         | Yes                                                                                                                         |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope)                                                                  |
| Mercury free               | Yes                                                                                                                         |
| China RoHS Regulation      |  <a href="#">China RoHS Declaration</a>  |
| RoHS exemption information |  <a href="#">Yes</a>                     |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
| PVC free                   | Yes                                                                                                                         |

## Dimensions

### Spring Terminal

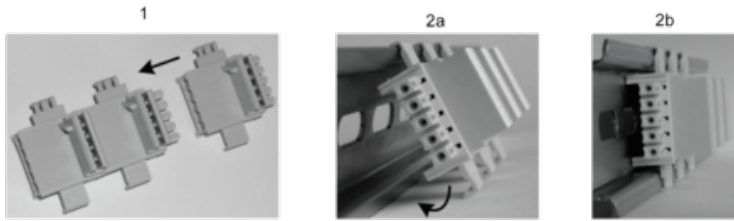


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## Mounting Safety Controller CPU with Module(s)

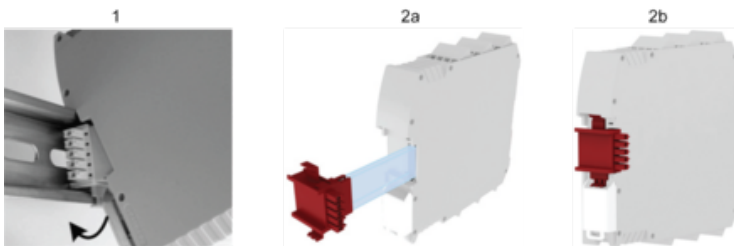
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### Mount BackPlane Connector on Rail



- 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

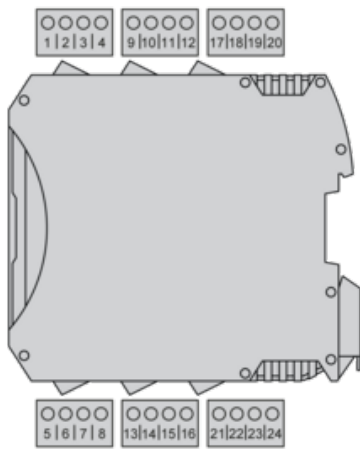
### ETHERNET/IP Connector



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

| Terminal | Signal | Description |
|----------|--------|-------------|
| 6        |        |             |
| 7        |        |             |
| 8        |        |             |

## Wiring Example

