



### 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                      | 10/100 Mbit/s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Communication Port Protocol            | Modbus TCP/IP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Current Consumption                    | 0.125 mA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Maximum cable distance between devices | 328.08 ft (100 m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Local signalling                       | LED green ON power ON<br>LED green RUN operating<br>LED red E IN internal error<br>LED red E EX external error<br>LED green/red NET connection state<br>LED green/red STS communication status                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Number of terminals                    | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Connections - terminals                | 2 captive screw clamp terminals, removable terminal block<br>1 captive screw clamp terminals, removable terminal block                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Cable cross section                    | 0.00...0.00 In <sup>2</sup> (0.2...1.5 mm <sup>2</sup> ) - AWG 24...AWG 16 flexible without cable end<br>0.00...0.00 In <sup>2</sup> (0.2...2.5 mm <sup>2</sup> ) - AWG 24...AWG 14 flexible without cable end<br>0.00...0.00 In <sup>2</sup> (0.25...1 mm <sup>2</sup> ) - AWG 23...AWG 18 flexible with cable end, without bezel<br>0.00...0.00 In <sup>2</sup> (0.25...2.5 mm <sup>2</sup> ) - AWG 23...AWG 14 flexible with cable end, with bezel<br>0.00...0.00 In <sup>2</sup> (0.25...2.5 mm <sup>2</sup> ) - AWG 23...AWG 14 flexible with cable end, without bezel<br>0.00...0.00 In <sup>2</sup> (0.5...1.5 mm <sup>2</sup> ) - AWG 20...AWG 16 flexible with cable end, with double bezel<br>0.00...0.00 In <sup>2</sup> (0.2...1 mm <sup>2</sup> ) - AWG 24...AWG 18 solid without cable end<br>0.00...0.00 in <sup>2</sup> (0.2...2.5 mm <sup>2</sup> ) - AWG 24...AWG 14 solid without cable end |
| Mounting support                       | Omega 35 mm DIN rail EN 50022                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Width                                  | 0.89 in (22.5 mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Height                                 | 3.90 in (99 mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Depth                                  | 4.51 in (114.5 mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Product Weight                         | 0.66 lb(US) (0.3 kg)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

## Environment

|                                       |                                                                                                                                                                                                                                                                                                                         |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Certifications                | RCM<br>CULus<br>TÜV                                                                                                                                                                                                                                                                                                     |
| IP degree of protection               | IP20                                                                                                                                                                                                                                                                                                                    |
| Ambient Air Temperature for Operation | 14...131 °F (-10...55 °C)                                                                                                                                                                                                                                                                                               |
| Ambient Air Temperature for Storage   | -4...185 °F (-20...85 °C)                                                                                                                                                                                                                                                                                               |
| Relative humidity                     | 10...95 %                                                                                                                                                                                                                                                                                                               |
| Pollution degree                      | 2                                                                                                                                                                                                                                                                                                                       |
| Insulation                            | 250 V AC between power supply and housing EN/IEC 61800-5-1                                                                                                                                                                                                                                                              |
| Overvoltage category                  | II                                                                                                                                                                                                                                                                                                                      |
| Electromagnetic compatibility         | Electrostatic discharge immunity test 6 kV on contact) EN/IEC 61000-4-2<br>Electrostatic discharge immunity test 20 kV on air) EN/IEC 61000-4-2<br>Susceptibility to electromagnetic fields 10 V/m 80...1000 MHz) EN/IEC 61000-4-3<br>Susceptibility to electromagnetic fields 30 V/m 1.4 GHz...2 GHz) EN/IEC 61000-4-3 |
| Vibration resistance                  | +/-0.35 mm 10...55 Hz)EN/IEC 61496-1                                                                                                                                                                                                                                                                                    |
| Shock resistance                      | 10 gn 16 ms) 1000 shocks on each axis EN/IEC 61496-1                                                                                                                                                                                                                                                                    |
| Operating altitude                    | 6561.68 ft (2000 m)                                                                                                                                                                                                                                                                                                     |
| Service Life                          | 20 year(s)                                                                                                                                                                                                                                                                                                              |

## Ordering and shipping details

|                       |                                   |
|-----------------------|-----------------------------------|
| Category              | 22477 - SAFETY MODULES (PREVENTA) |
| Discount Schedule     | SAF2                              |
| GTIN                  | 3606480748424                     |
| Nbr. of units in pkg. | 1                                 |
| Package weight(Lbs)   | 7.41 oz (210 g)                   |
| Returnability         | Yes                               |
| Country of origin     | IT                                |

## Packing Units

|                              |                        |
|------------------------------|------------------------|
| Unit Type of Package 1       | PCE                    |
| Package 1 Height             | 1.77 in (4.5 cm)       |
| Package 1 width              | 5.00 in (12.7 cm)      |
| Package 1 Length             | 6.38 in (16.2 cm)      |
| Unit Type of Package 2       | S01                    |
| Number of Units in Package 2 | 6                      |
| Package 2 Weight             | 3.38 lb(US) (1.534 kg) |
| Package 2 Height             | 5.91 in (15 cm)        |
| Package 2 width              | 5.91 in (15 cm)        |
| Package 2 Length             | 15.75 in (40 cm)       |

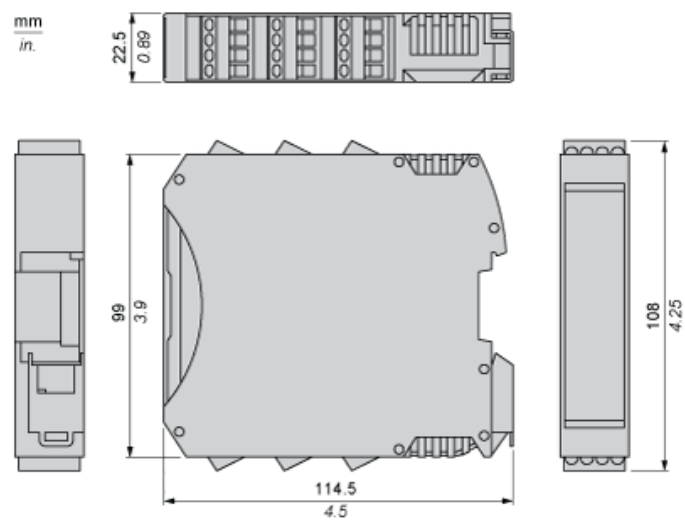
## Offer Sustainability

|                            |                                                                                                                                                                                                                                                                                             |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                                                                                                                                                                                       |
| 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| 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)  <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. |
| PVC free                 | Yes                                                                                                                          |

## Dimensions

### Screw Terminal

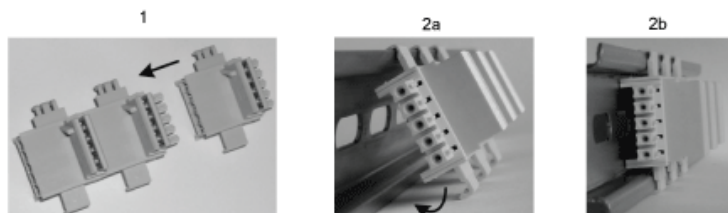


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## Mounting Safety Controller CPU with Module(s)

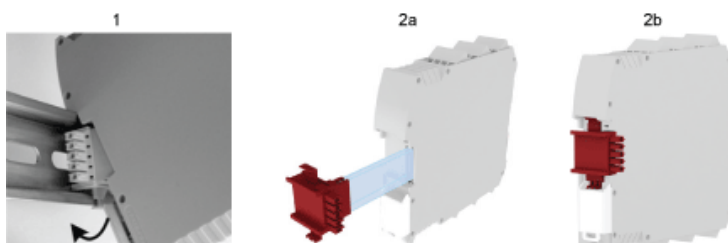
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### Mount BackPlane Connector on Rail



- 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

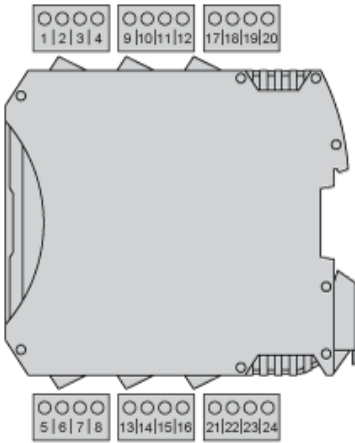
Modbus TCP Connector



|             |                                                                                                                                     |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Description | MBTCP (Modbus TCP/IP) 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         |

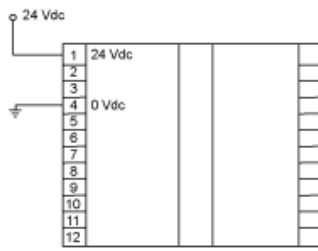
Wiring

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       |
| 6        |        |                     |
| 7        |        |                     |
| 8        |        |                     |

## Wiring Example



# Mouser Electronics

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