



### Main

|                           |                                     |
|---------------------------|-------------------------------------|
| Range of product          | Preventa Safety automation          |
| Product or component type | Safe communication expansion module |
| Device short name         | XPSMCM                              |
| [Us] rated supply voltage | 24 V - 20...20 % DC                 |

### Complementary

|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power dissipation in W                 | 3 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Safety level                           | Can reach category 4 conforming to EN/ISO 13849-1<br>Can reach PL = e conforming to EN/ISO 13849-1<br>Can reach SIL 3 conforming to EN/IEC 61508<br>Can reach SILCL 3 conforming to IEC 62061                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Quality labels                         | CE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Range compatibility                    | Preventa XPSMCM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Connector type                         | 4 ways RS485                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Number of port                         | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Communication port protocol            | RS485                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Current consumption                    | 0.125 mA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Maximum cable distance between devices | 164.04 ft (50 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Number of terminals                    | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Connections - terminals                | 2 captive screw clamp terminals, removable terminal block<br>1 captive screw clamp terminals, removable terminal block                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Cable cross section                    | 0.2...1.5 Mm <sup>2</sup> - AWG 24...AWG 16 flexible cablewithout cable end<br>0.2...2.5 Mm <sup>2</sup> - AWG 24...AWG 14 flexible cablewithout cable end<br>0.25...1 Mm <sup>2</sup> - AWG 23...AWG 18 flexible cablewith cable end, without bezel<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>0.5...1.5 Mm <sup>2</sup> - AWG 20...AWG 16 flexible cablewith cable end, with double bezel<br>0.2...1 Mm <sup>2</sup> - AWG 24...AWG 18 solid cablewithout cable end<br>0.2...2.5 mm <sup>2</sup> - AWG 24...AWG 14 solid cablewithout cable end |
| Mounting support                       | Omega 35 mm DIN rail conforming to EN 50022                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Maximum Width                          | 0.89 in (22.5 mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Height                                 | 3.90 in (99 mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Depth                                  | 4.51 in (114.5 mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Net Weight                             | 0.66 lb(US) (0.3 kg)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

## Environment

|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product certifications                | RCM<br>TÜV<br>CULus                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 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 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                    | 6561.68 ft (2000 m)                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Service life                          | 20 year(s)                                                                                                                                                                                                                                                                                                                                                                                                                                  |

## Ordering and shipping details

|                       |                                   |
|-----------------------|-----------------------------------|
| Category              | 22477 - SAFETY MODULES (PREVENTA) |
| Discount Schedule     | SAF2                              |
| GTIN                  | 00785901546078                    |
| Nbr. of units in pkg. | 1                                 |
| Package weight(Lbs)   | 0.45 lb(US) (0.20 kg)             |
| Returnability         | No                                |
| Country of origin     | IT                                |

## Packing Units

|                  |          |
|------------------|----------|
| Package 1 Height | 0.450 dm |
| Package 1 width  | 1.250 dm |
| Package 1 Length | 1.610 dm |

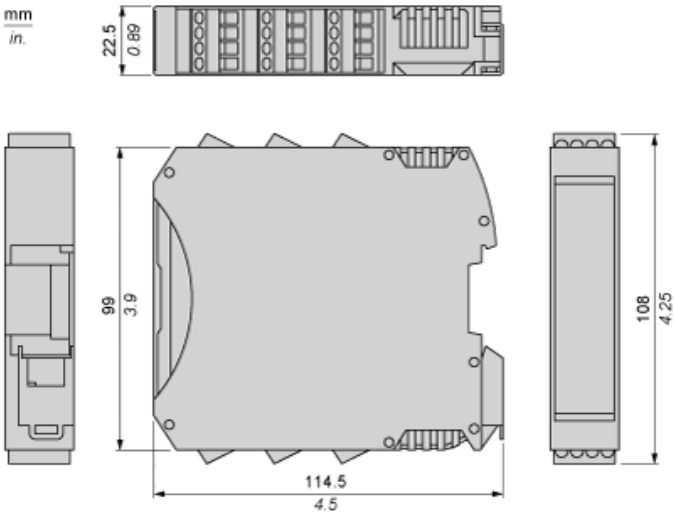
## Offer Sustainability

|                            |                                                                                                                                                                                                                                                                                             |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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

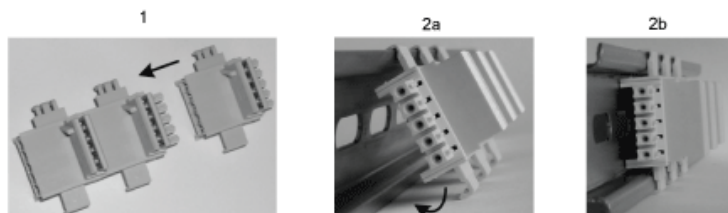


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## Mounting Safety Controller CPU with Module(s)

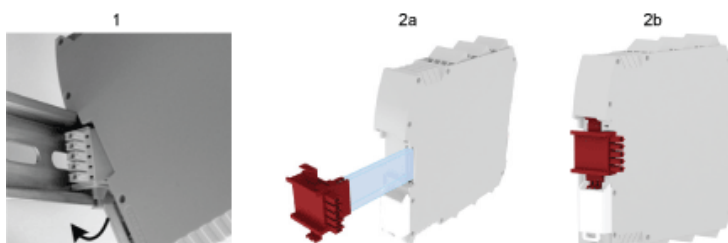
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### Mount BackPlane Connector on Rail



- 1 : Connect as much Backplane Connector as module to be install.
- 2 : Fix the connectors to the rail (Top first).

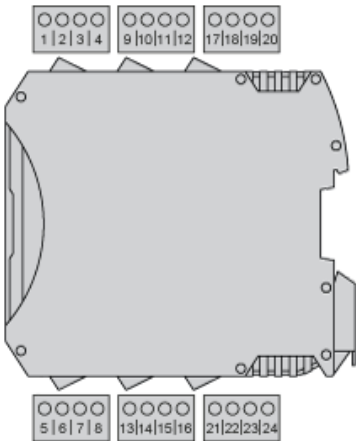
### Mount Safety Controller CPU with Other Module(s)



- 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.

Wiring

Terminal Designation



| Terminal | Signal        |
|----------|---------------|
| 1        | 24 VDC        |
| 2        | not connected |
| 3        | BRAIDING CH1  |
| 4        | 0 VDC         |
| 5        | not connected |
| 6        | not connected |
| 7        | BRAIDING CH2  |
| 8        | not connected |
| 9        | CH1-A         |
| 10       | CH1-B         |
| 11       | CH1-C         |
| 12       | CH1-D         |
| 13       | CH2-A         |
| 14       | CH2-B         |
| 15       | CH2-C         |
| 16       | CH2-D         |