



### Main

|                           |                                          |
|---------------------------|------------------------------------------|
| Range of Product          | Preventa Safety automation               |
| Product or Component Type | Safe relay output module                 |
| Device short name         | XPSMCM                                   |
| Electrical Connection     | Screw terminal                           |
| [Us] rated supply voltage | 24 V - 20...20 % DC                      |
| Number of Outputs         | 4 relay                                  |
| Discrete output number    | 8 solid state 125 mA diagnostics)        |
| Function of module        | Monitoring safety actuators relay output |

### Complementary

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Maximum power dissipation in W | 3 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Integrated connection type     | Backplane expansion bus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Switching voltage              | 10 V DC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Associated fuse rating         | 3.5 A, slow-blow                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Safety level                   | Can reach category 4 EN/ISO 13849-1<br>Can reach PL = e EN/ISO 13849-1<br>Can reach SIL 3 EN/IEC 61508<br>SILCL 3 IEC 62061                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Quality labels                 | CE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Output type                    | Relay, 4 NO, volt-free                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Quantity per Set               | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Switching time                 | 12 ms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Maximum switching voltage      | 400 V AC<br>250 V DC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Minimum switching current      | 20 mA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Maximum switching current      | 6 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Number of terminal blocks      | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Local signalling               | 1 LED green PWR power ON<br>1 LED green RUN RUN (status)<br>1 LED red E IN internal error<br>1 LED red E EX external error<br>2 LEDs orange ADDR node address<br>4 LEDs green/red RELAY K1...K4 relay contact<br>4 LEDs yellow RST requires reset<br>8 LEDs yellow STATUS diagnostics output                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 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)    |
| Net Weight | 0.73 lb(US) (0.33 kg) |

## Environment

|                                        |                                                                                                                                                                                                                                                                                                                         |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standards                              | EN/IEC 61800-5-1<br>EN/ISO 13849-1<br>EN/IEC 61508<br>IEC 62061                                                                                                                                                                                                                                                         |
| Product Certifications                 | CULus<br>TÜV<br>RCM                                                                                                                                                                                                                                                                                                     |
| 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                                                                                                                                                                                                                                                                                                                       |
| [Uimp] rated impulse withstand voltage | 4 kV EN/IEC 61800-5-1                                                                                                                                                                                                                                                                                                   |
| Safety reliability data                | B10d = 300000 AC-15 230 V, , <3 A EN/ISO 13849-1<br>B10d = 750000 AC-15 230 V, , <1 A EN/ISO 13849-1<br>B10d = 1000000 DC-13 24 V, , <2 A EN/ISO 13849-1                                                                                                                                                                |
| 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                                                                                                                                                                                                                                                                     |
| Electrical durability                  | 20000000 cycles                                                                                                                                                                                                                                                                                                         |
| Mechanical durability                  | 20000000 cycles                                                                                                                                                                                                                                                                                                         |
| Service Life                           | 20 year(s)                                                                                                                                                                                                                                                                                                              |

## Ordering and shipping details

|                       |                                   |
|-----------------------|-----------------------------------|
| Category              | 22477 - SAFETY MODULES (PREVENTA) |
| Discount Schedule     | SAF2                              |
| GTIN                  | 3606480748875                     |
| Nbr. of units in pkg. | 1                                 |
| Package weight(Lbs)   | 10.86 oz (308 g)                  |
| Returnability         | No                                |
| Country of origin     | IT                                |

## Packing Units

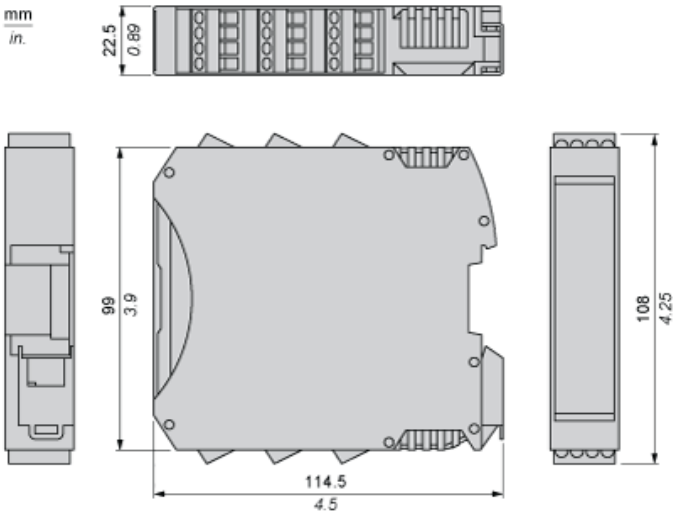
|                              |                       |
|------------------------------|-----------------------|
| Unit Type of Package 1       | PCE                   |
| Package 1 Height             | 1.73 in (4.4 cm)      |
| Package 1 width              | 6.22 in (15.8 cm)     |
| Package 1 Length             | 4.80 in (12.2 cm)     |
| Unit Type of Package 2       | S01                   |
| Number of Units in Package 2 | 6                     |
| Package 2 Weight             | 4.65 lb(US) (2.11 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

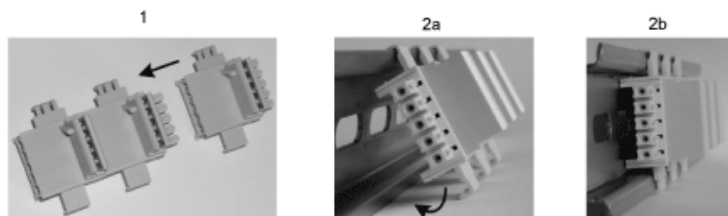


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## Mounting Safety Controller CPU with Module(s)

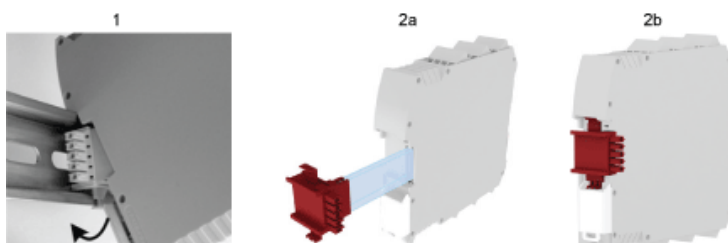
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### Mount BackPlane Connector on Rail



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

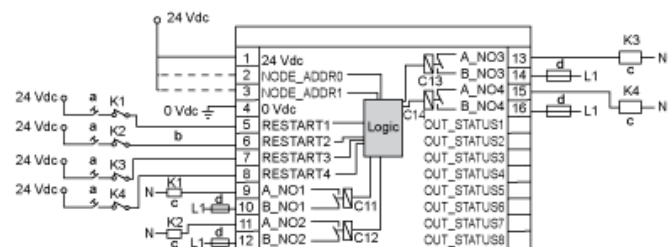
### Mount Safety Controller CPU with Other Module(s)



- 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.

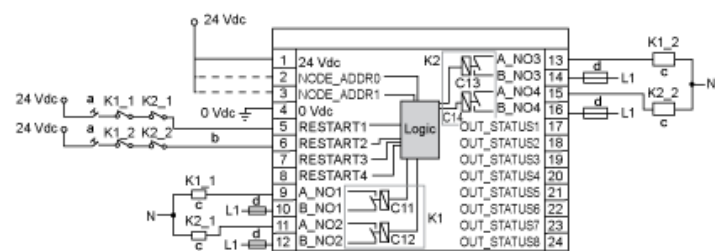
## Wiring

### Category 2 Wiring



- a : Restart
- b : Feedback
- c : Load
- d : Fuse

### Category 4 Wiring



- a : Restart
- b : Feedback
- c : Load
- d : Fuse

# Mouser Electronics

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