

# XPSMCMRO0004DA

expansion module, Modicon MCM, 4 safety relay outputs, with diagnostic outout, with backplane connection, screw



## 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 ISO 13849-1<br>Can reach PL = e ISO 13849-1<br>Can reach SIL 3 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                              | IEC 61800-5-1<br>ISO 13849-1<br>IEC 61508<br>IEC 62061  |
| Product Certifications                 | cULus[RETURN]TÜV[RETURN]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 IEC 61800-5-1  |
| Safety reliability data                | B10d = 300000 AC-15 230 V, , <3 A ISO 13849-1<br>B10d = 750000 AC-15 230 V, , <1 A ISO 13849-1<br>B10d = 10000000 DC-13 24 V, , <2 A ISO 13849-1  |
| Insulation                             | 250 V AC between power supply and housing IEC 61800-5-1   |
| Overvoltage category                   | II  |
| Electromagnetic compatibility          | Electrostatic discharge immunity test - test level: 6 kV (on contact) conforming to IEC 61000-4-2<br>Electrostatic discharge immunity test - test level: 20 kV (on air) conforming to IEC 61000-4-2<br>Susceptibility to electromagnetic fields - test level: 10 V/m (80...1000 MHz) conforming to IEC 61000-4-3<br>Susceptibility to electromagnetic fields - test level: 30 V/m (1.4 GHz...2 GHz) conforming to IEC 61000-4-3 |
| Vibration resistance                   | +/-0.35 mm 10...55 Hz)IEC 61496-1   |
| Shock resistance                       | 10 gn 16 ms 1000 shocks on each axis)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                   |
| Returnability     | No                              |
| Country of origin | IT                              |

## Packing Units

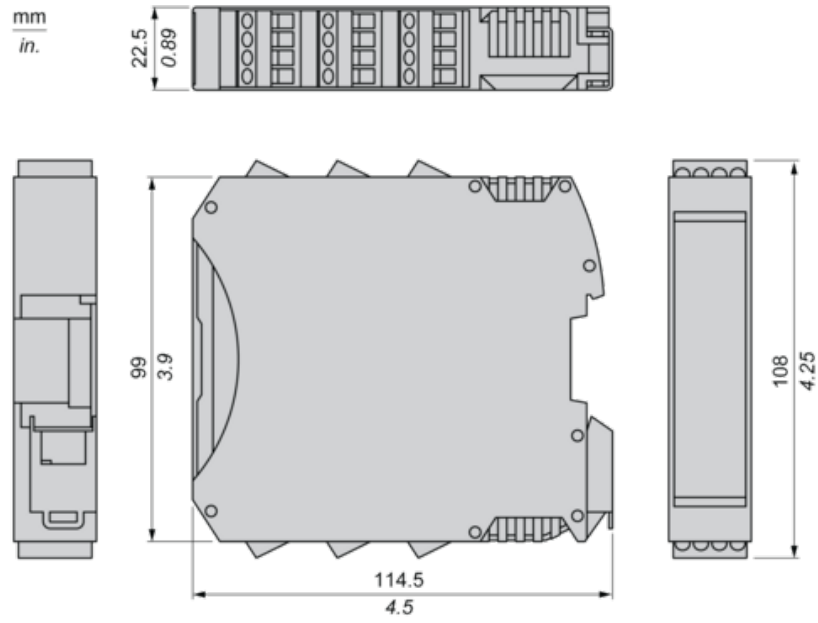
|                              |                       |
|------------------------------|-----------------------|
| Unit Type of Package 1       | PCE                   |
| Number of Units in Package 1 | 1                     |
| Package 1 Height             | 1.73 in (4.4 cm)      |
| Package 1 Width              | 6.22 in (15.8 cm)     |
| Package 1 Length             | 4.80 in (12.2 cm)     |
| Package 1 Weight             | 10.86 oz (308.0 g)    |
| Unit Type of Package 2       | S01                   |
| Number of Units in Package 2 | 6                     |
| Package 2 Height             | 5.91 in (15.0 cm)     |
| Package 2 Width              | 5.91 in (15.0 cm)     |
| Package 2 Length             | 15.75 in (40.0 cm)    |
| Package 2 Weight             | 4.65 lb(US) (2.11 kg) |

## 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)  |
| Mercury free               | Yes   |
| China RoHS Regulation      | <a href="#">China RoHS Declaration</a>  |
| RoHS exemption information | <a href="#">Yes</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

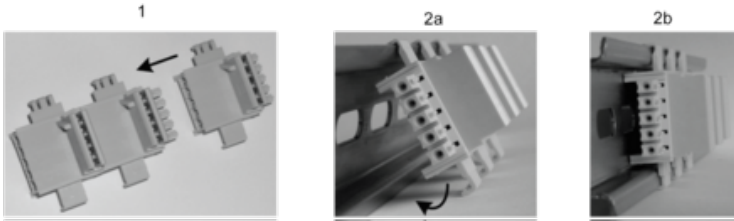


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Mounting Safety Controller CPU with Module(s)

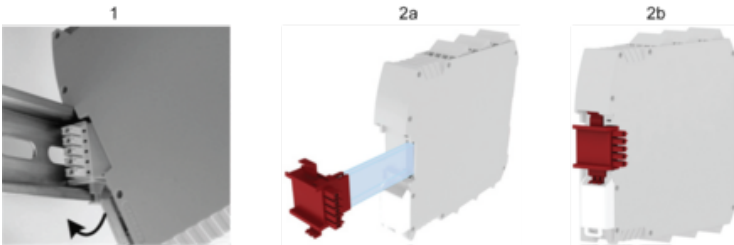
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Mount BackPlane Connector on Rail



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

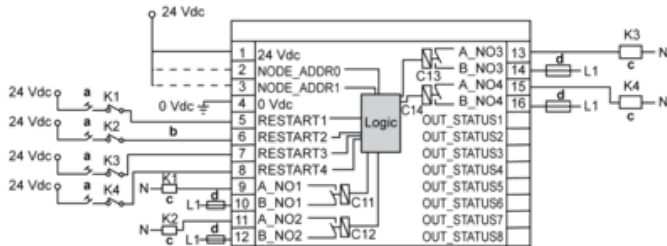
Mount Safety Controller CPU with Other Module(s)



- 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.

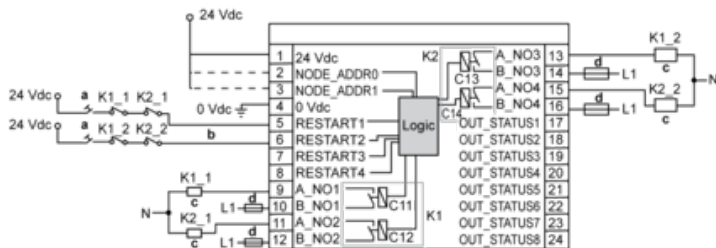
Wiring

Category 2 Wiring



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

Category 4 Wiring



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