



### 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         | 2 relay                                  |
| Function of module        | Relay output monitoring safety actuators |

### Complementary

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power dissipation in W     | <= 3 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Integrated connection type | Not connected to backplane expansion bus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Switching voltage          | 10 V DC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Associated fuse rating     | 3.5 A slow-blow                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Safety level               | Can reach SIL 3 conforming to EN/IEC 61508<br>SILCL 3 conforming to IEC 62061<br>Can reach category 4 conforming to EN/ISO 13849-1<br>Can reach PL = e conforming to EN/ISO 13849-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Quality labels             | CE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Output type                | Relay, with 2 NO + 1 NC, volt-free                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Quantity per set           | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Switching time             | 12 ms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Maximum switching voltage  | 250 V DC<br>400 V AC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Minimum switching current  | 20 mA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Maximum switching current  | 6 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Number of terminal blocks  | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Local signalling           | 1 LED green with PWR marking for power ON<br>1 LED green with RUN marking for RUN (status)<br>1 LED red with E IN marking for internal error<br>1 LED red with E EX marking for external error<br>2 LEDs orange with ADDR marking for node address<br>1 LED green/red with RELAY K1 marking for relay contact                                                                                                                                                                                                                                                                                                                                                                                                          |
| Connections - terminals    | 2-wire captive screw clamp terminals, removable terminal block<br>1-wire captive screw clamp terminals, removable terminal block                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Cable cross section        | (0.2...1.5 mm <sup>2</sup> - AWG 24...AWG 16) flexible cable without cable end<br>(0.2...2.5 mm <sup>2</sup> - AWG 24...AWG 14) flexible cable without cable end<br>(0.25...1 mm <sup>2</sup> - AWG 23...AWG 18) flexible cable with cable end, without bezel<br>(0.25...2.5 mm <sup>2</sup> - AWG 23...AWG 14) flexible cable with cable end, with bezel<br>(0.5...1.5 mm <sup>2</sup> - AWG 20...AWG 16) flexible cable with cable end, with double bezel<br>(0.2...1 mm <sup>2</sup> - AWG 24...AWG 18) solid cable without cable end<br>(0.2...2.5 mm <sup>2</sup> - AWG 24...AWG 14) solid cable without cable end<br>(0.25...2.5 mm <sup>2</sup> - AWG 23...AWG 14) flexible cable with cable end, without bezel |
| Mounting support           | Omega 35 mm DIN rail conforming to EN 50022                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Width                      | 22.5 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Height                     | 99 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Depth                      | 114.5 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Product weight             | 0.25 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

### Environment

|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| standards                              | EN/IEC 61508<br>EN/IEC 61800-5-1<br>EN/ISO 13849-1<br>IEC 62061                                                                                                                                                                                                                                                                                                                                                                     |
| product certifications                 | CULus<br>TÜV<br>RCM                                                                                                                                                                                                                                                                                                                                                                                                                 |
| IP degree of protection                | IP20                                                                                                                                                                                                                                                                                                                                                                                                                                |
| ambient air temperature for operation  | -10...55 °C                                                                                                                                                                                                                                                                                                                                                                                                                         |
| ambient air temperature for storage    | -20...85 °C                                                                                                                                                                                                                                                                                                                                                                                                                         |
| relative humidity                      | 10...95 %                                                                                                                                                                                                                                                                                                                                                                                                                           |
| pollution degree                       | 2                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| [Uimp] rated impulse withstand voltage | 4 kV conforming to EN/IEC 61800-5-1                                                                                                                                                                                                                                                                                                                                                                                                 |
| safety reliability data                | B10d = 300000 utilisation category AC-15 230 V, 3 A, conforming to EN/ISO 13849-1<br>B10d = 750000 utilisation category AC-15 230 V, 1 A, conforming to EN/ISO 13849-1<br>B10d = 10000000 utilisation category DC-13 24 V, 2 A, conforming to EN/ISO 13849-1                                                                                                                                                                        |
| 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 1000 shocks on each axis 16 ms EN/IEC 61496-1 1000 shocks on each axis EN/IEC 61496-1 EN/IEC 61496-1                                                                                                                                                                                                                                                                                                                          |
| electrical durability                  | 20000000 cycles                                                                                                                                                                                                                                                                                                                                                                                                                     |
| mechanical durability                  | 20000000 cycles                                                                                                                                                                                                                                                                                                                                                                                                                     |
| service life                           | 20 yr                                                                                                                                                                                                                                                                                                                                                                                                                               |

## Offer Sustainability

|                                  |                                                                       |
|----------------------------------|-----------------------------------------------------------------------|
| Sustainable offer status         | Green Premium product                                                 |
| RoHS (date code: YYWW)           | Compliant - since 1450 - Schneider Electric declaration of conformity |
| REACH                            | Reference not containing SVHC above the threshold                     |
| Product environmental profile    | Available                                                             |
| Product end of life instructions | Available                                                             |