



## Main

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| Range of product              | Preventa Safety automation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Product or component type     | Preventa safety module                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Safety module name            | XPSAR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Safety module application     | For emergency stop, switch and safety light curtain monitoring                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Function of module            | Monitoring of a movable guard associated with 2 switches and automatic start<br>Multiple emergency stop monitoring 2-channel wiring<br>Monitoring of a movable guard<br>Emergency stop monitoring 1-channel wiring<br>Monitoring of electro-sensitive protection equipment (ESPE)<br>Emergency stop with 2 NC contacts monitoring 2-channel wiring                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Safety level                  | Can reach PL e/category 4 conforming to EN/ISO 13849-1<br>Can reach SILCL 3 conforming to EN/IEC 62061                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Safety reliability data       | DC > 99 % conforming to EN/ISO 13849-1<br>MTTFd = 277.8 years conforming to EN/ISO 13849-1<br>PFHd = 2.22E-9 1/h conforming to EN/IEC 62061                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Type of start                 | Configurable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Connections - terminals       | Captive screw clamp terminals, clamping capacity: 2 x 0.5...2 x 1.5 mm <sup>2</sup> flexible cable with cable end, with double bezel<br>Captive screw clamp terminals, clamping capacity: 1 x 0.14...1 x 2.5 mm <sup>2</sup> flexible cable with cable end, with double bezel<br>Captive screw clamp terminals, clamping capacity: 1 x 0.14...1 x 2.5 mm <sup>2</sup> solid cable with cable end, with double bezel<br>Captive screw clamp terminals, clamping capacity: 1 x 0.25...1 x 1.5 mm <sup>2</sup> flexible cable with cable end, with double bezel<br>Captive screw clamp terminals, clamping capacity: 1 x 0.25...1 x 2.5 mm <sup>2</sup> flexible cable with cable end, with double bezel<br>Captive screw clamp terminals, clamping capacity: 2 x 0.14...2 x 0.75 mm <sup>2</sup> flexible cable with cable end, with double bezel<br>Captive screw clamp terminals, clamping capacity: 2 x 0.14...2 x 0.75 mm <sup>2</sup> solid cable with cable end, with double bezel<br>Captive screw clamp terminals, clamping capacity: 2 x 0.25...2 x 1 mm <sup>2</sup> flexible cable with cable end, with double bezel |
| Output type                   | Relay instantaneous opening 7 NO, volt-free                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Number of additional circuits | 2 NC + 4 solid state outputs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| [Us] rated supply voltage     | 115 V AC (- 15...10 %)<br>24 V DC (- 15...10 %)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

## Complementary

|                                             |                                                                                                                                                                                                  |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Synchronisation time between inputs         | 100 ms                                                                                                                                                                                           |
| Supply frequency                            | 50/60 Hz                                                                                                                                                                                         |
| Power consumption in W                      | <= 4 W DC                                                                                                                                                                                        |
| Power consumption in VA                     | <= 9 VA AC                                                                                                                                                                                       |
| Input protection type                       | Internal, electronic                                                                                                                                                                             |
| [Uc] control circuit voltage                | 24 V DC                                                                                                                                                                                          |
| Line resistance                             | 50 Ohm                                                                                                                                                                                           |
| Breaking capacity                           | C300 : 360 VA, AC-15 (holding) for relay output<br>C300 : 3600 VA, AC-15 (inrush) for relay output                                                                                               |
| Breaking capacity                           | 20 mA at 24 V<br>2 A at 24 V (DC-13) time constant: 50 ms for relay output                                                                                                                       |
| Output thermal current                      | 10 A per relay for relay output                                                                                                                                                                  |
| [Ith] conventional free air thermal current | 40 A                                                                                                                                                                                             |
| Associated fuse rating                      | 10 A fuse type fast blow for relay output conforming to EN/IEC 60947-5-1, DIN VDE 0660 part 200<br>6 A fuse type gG or gL for relay output conforming to EN/IEC 60947-5-1, DIN VDE 0660 part 200 |
| Minimum output current                      | 170 mA for relay output                                                                                                                                                                          |
| Minimum output voltage                      | 17 V for relay output                                                                                                                                                                            |
| Response time on input open                 | <= 20 ms                                                                                                                                                                                         |
| [Ui] rated insulation voltage               | 300 V (degree of pollution: 2) conforming to DIN VDE 0110 part 1<br>300 V (degree of pollution: 2) conforming to IEC 60947-5-1                                                                   |
| [Uimp] rated impulse withstand voltage      | 4 kV overvoltage category III conforming to IEC 60947-5-1<br>4 kV overvoltage category III conforming to DIN VDE 0110 part 1                                                                     |
| Local signalling                            | 4 LEDs                                                                                                                                                                                           |
| Current consumption                         | 20 mA at 24 V DC (on power supply)                                                                                                                                                               |
| Mounting support                            | 35 mm symmetrical DIN rail                                                                                                                                                                       |
| Product weight                              | 0.4 kg                                                                                                                                                                                           |

## Environment

|                                       |                                                                                            |
|---------------------------------------|--------------------------------------------------------------------------------------------|
| Standards                             | EN/ISO 13850<br>EN/IEC 60947-5-1<br>EN 1088/ISO 14119<br>EN/IEC 60204-1                    |
| Product certifications                | UL<br>CSA<br>TÜV                                                                           |
| IP degree of protection               | IP20 (terminals) conforming to EN/IEC 60529<br>IP40 (enclosure) conforming to EN/IEC 60529 |
| Ambient air temperature for operation | -10...55 °C                                                                                |
| Ambient air temperature for storage   | -25...85 °C                                                                                |

## Contractual warranty

|                 |           |
|-----------------|-----------|
| Warranty period | 18 months |
|-----------------|-----------|

## Dimensions

