



### Main

|                                |                           |
|--------------------------------|---------------------------|
| Range of product               | Preventa Safety detection |
| Product or component type      | Coded magnetic switch     |
| Component name                 | XCSDMR                    |
| Design                         | Cylindrical               |
| Size                           | Ø 30 x 38.5 mm            |
| Contacts type and composition  | 2 NC                      |
| Contact operation              | Staggered                 |
| Material                       | Plastic                   |
| Electrical connection          | Pre-cabled                |
| Cable composition              | 4 x 0.25 mm <sup>2</sup>  |
| Cable length                   | 10 m                      |
| Number of poles                | 2                         |
| Approach directions            | 1 direction               |
| [Ue] rated operational voltage | 24 V DC                   |
| [Ui] rated insulation voltage  | 100 V DC                  |

### Complementary

|  |   |
|--|---|
| [Sa] assured operating distance        | 8 mm  |
| [Sar] assured tripping distance        | 20 mm   |
| Maximum [Ie] rated operational current | 100 mA  |
| [Uimp] rated impulse withstand voltage | 2.5 kV EN/IEC 60947-5-1   |
| Resistance across terminals            | 10 Ohm  |
| Short-circuit protection               | 500 mA external cartridge fuse type gG (gl)   |
| Contacts material                      | Rhodium   |
| Electrical durability                  | 1200000 cycles  |
| Maximum switching voltage              | 100 V DC  |
| Switching capacity in mA               | 0.1...100 mA  |
| Insulation resistance                  | 1000 MOhm   |
| Breaking capacity                      | 10 VA   |
| Switching frequency                    | 150 Hz  |
| Safety level                           | Can reach category 4 with the appropriate monitoring system and correctly wired conforming to EN/ISO 13849-1<br>Can reach PL = e with the appropriate monitoring system and correctly wired conforming to EN/ISO 13849-1<br>Can reach SIL 3 with the appropriate monitoring system and correctly wired conforming to EN/IEC 61508 |
| Safety reliability data                | B10d = 50000000 value given for a life time of 20 years limited by mechanical or contact wear   |
| Enclosure material                     | Thermoplastic PBT   |
| Cable material                         | PVC   |
| Diameter                               | 30 mm   |
| Length                                 | 39 mm   |
| Net weight                             | 0.146 kg  |

## Environment

|  |  |
|--|--|
| Standards                              | EN/IEC 60947-5-1<br>CSA C22.2 No 14<br>UL 508<br>EN/IEC 60204-1<br>EN/ISO 12100<br>ISO 14119 |
| Product certifications                 | CSA<br>UL<br>BG  |
| Protective treatment                   | TH   |
| Ambient air temperature for operation  | -25...85 °C  |
| Ambient air temperature for storage    | -40...85 °C  |
| Vibration resistance                   | 10 gn (f= 10...150 Hz) conforming to IEC 60068-2-6   |
| Shock resistance                       | 30 gn for 11 ms conforming to IEC 60068-2-27   |
| Maximum sensitivity to magnetic fields | 0.3 mT   |
| Electrical shock protection class      | Class II conforming to EN/IEC 61140  |
| IP degree of protection                | IP66 conforming to IEC 60529<br>IP67 conforming to IEC 60529                                 |

## Offer Sustainability

|                            |  |
|----------------------------|--|
| 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> |
| Toxic heavy metal free     | Yes  |
| Mercury free               | Yes  |
| RoHS exemption information | <a href="#">Yes</a>  |

## Contractual warranty

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