# Product data sheet
## Characteristics

# XCSDMR5902
## coded magnetic switch XCSDMR - SIL 3 - 1 NC+1 NO, NC staggered - cable 2 m



### 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 | 1 NC + 1 NO |
| Contacts operation | Staggered |
| Material | Plastic |
| Electrical connection | Pre-cabled |
| Cable composition | 4 x 0.25 mm² |
| Cable length | 2 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 |
| [Ie] rated operational current | <= 100 A |
| [Uimp] rated impulse withstand voltage | 2.5 kV conforming to 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 SIL 3 (with the appropriate monitoring system and correctly wired) conforming to EN/IEC 61508<br>Can reach PL = e (with the appropriate monitoring system and correctly wired) conforming to EN/ISO 13849-1<br>Can reach category 4 (with the appropriate monitoring system and correctly wired) conforming to EN/ISO 13849-1 |
| Safety reliability data | B10d = 5000000 (value given for a life time of 20 years limited by mechanical or contact wear) |
| Enclosure material | Thermoplastic PBT |
| Cable material | PVC |
| Product weight | 0.146 kg |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein.
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.
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## Environment

| | |
|---|---|
| Standards | CSA C22-2 No 14<br>EN 1088<br>EN/IEC 60204-1<br>EN/IEC 60947-5-1<br>EN/ISO 12100<br>ISO 14119<br>UL 508 |
| Product certifications | BG<br>CSA<br>UL |
| 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 |
| Sensitivity to magnetic fields | >= 0.3 mT |
| Class of protection against electric shock | Class II conforming to IEC 60536 |
| IP degree of protection | IP67 conforming to IEC 60529<br>IP66 conforming to IEC 60529 |

## Offer Sustainability

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|---|---|
| Sustainable offer status | Not Green Premium product |
| ROHS | Compliant - since 0729 - download declaration of conformity |
| REACH | Reference not containing SVHC above the threshold |