

# XCSDMC5902

coded magnetic switch XCSDMC - 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                 | XCSDMC                    |
| Design                         | Rectangular, compact      |
| Size                           | 51 x 16 x 7 mm            |
| Contacts type and composition  | 1 NC + 1 NO               |
| Contacts operation             | Staggered                 |
| Material                       | Plastic                   |
| Electrical connection          | Pre-cabled                |
| Cable composition              | 4 x 0.25 mm <sup>2</sup>  |
| Cable length                   | 2 m                       |
| Number of poles                | 2                         |
| Approach directions            | 3 directions              |
| [Ue] rated operational voltage | 24 V                      |

## Complementary

|  |   |
|--|---|
| [Sa] assured operating distance        | 5 mm  |
| [Sar] assured tripping distance        | 15 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 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 = 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                         | 0.101 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

## 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             | $\geq 0.3$ mT   |
| Class of protection against electric shock | Class II conforming to IEC 60536  |
| IP degree of protection                    | IP66 conforming to IEC 60529<br>IP67 conforming to IEC 60529  |
| RoHS EUR status                            | Compliant   |
| RoHS EUR conformity date                   | 0729  |