



## Main

|                                |                                   |
|--------------------------------|-----------------------------------|
| Range of product               | Telemecanique Safety switches XCS |
| 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                       |
| Contact operation              | Staggered                         |
| Material                       | Plastic                           |
| Electrical connection          | Pre-cabled                        |
| Cable composition              | 4 x 0.25 mm <sup>2</sup>          |
| Cable length                   | 32.81 ft (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        | 0.31 in (8 mm)                         |
| [Sar] assured tripping distance        | 0.79 in (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 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 EN/ISO 13849-1<br>Can reach PL = e with the appropriate monitoring system and correctly wired 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                | 1.18 in (30 mm)                                                                                                                                                                                                                                                                                       |
| Length                  | 1.54 in (39 mm)                                                                                                                                                                                                                                                                                       |
| Net weight              | 0.32 lb(US) (0.146 kg)                                                                                                                                                                                                                                                                                |

## Environment

|                                        |                                                                                              |
|----------------------------------------|----------------------------------------------------------------------------------------------|
| Standards                              | ISO 14119<br>EN/ISO 12100<br>UL 508<br>EN/IEC 60947-5-1<br>EN/IEC 60204-1<br>CSA C22.2 No 14 |
| Product certifications                 | BG<br>UL<br>CSA                                                                              |
| Protective treatment                   | TH                                                                                           |
| Ambient air temperature for operation  | -13...185 °F (-25...85 °C)                                                                   |
| Ambient air temperature for storage    | -40...185 °F (-40...85 °C)                                                                   |
| Vibration resistance                   | 10 gn 10...150 Hz)IEC 60068-2-6                                                              |
| Shock resistance                       | 30 gn 11 ms IEC 60068-2-27                                                                   |
| Maximum sensitivity to magnetic fields | 0.3 mT                                                                                       |
| Electrical shock protection class      | Class II EN/IEC 61140                                                                        |
| IP degree of protection                | IP66 IEC 60529<br>IP67 IEC 60529                                                             |

## Packing Units

|                              |                         |
|------------------------------|-------------------------|
| Unit Type of Package 1       | PCE                     |
| Number of Units in Package 1 | 1                       |
| Package 1 Weight             | 15.17 oz (430 g)        |
| Package 1 Height             | 1.89 in (4.8 cm)        |
| Package 1 width              | 7.01 in (17.8 cm)       |
| Package 1 Length             | 7.44 in (18.9 cm)       |
| Unit Type of Package 2       | S02                     |
| Number of Units in Package 2 | 10                      |
| Package 2 Weight             | 10.04 lb(US) (4.556 kg) |
| Package 2 Height             | 5.91 in (15 cm)         |
| Package 2 width              | 11.81 in (30 cm)        |
| Package 2 Length             | 15.75 in (40 cm)        |

## 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)<br><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 |
|----------|-----------|