

# Product datasheet

Specifications



## coded magnetic switch XCSDMC - 1 NC + 1 NO - staggered - M8 0.15m

Local distributor code: 388806285    XCSDMC591L01M8

### Main

|                                |                                   |
|--------------------------------|-----------------------------------|
| Range of product               | Telemecanique Safety switches XCS |
| 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                       |
| Contact operation              | Staggered                         |
| Material                       | Plastic                           |
| Electrical connection          | Connector on flying lead          |
| Connector type                 | M8                                |
| Cable length                   | 0.15 m                            |
| Number of poles                | 2                                 |
| Local signalling               | 1 LED                             |
| Approach directions            | 3 directions                      |
| [Ue] rated operational voltage | 24 V DC                           |
| [Ui] rated insulation voltage  | 100 V DC                          |

### Complementary

|                                        |                                             |
|----------------------------------------|---------------------------------------------|
| [Sa] assured operating distance        | 5 mm                                        |
| [Sar] assured tripping distance        | 15 mm                                       |
| Maximum [Ie] rated operational current | 100 mA                                      |
| [Uimp] rated impulse withstand voltage | 2.5 kV conforming to EN/IEC 60947-5-1       |
| Resistance across terminals            | 57 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               | 5...100 mA                                  |

|                         |                                                                                                                                                                                                                                                                                                                                   |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Insulation resistance   | 1000 MOhm                                                                                                                                                                                                                                                                                                                         |
| Breaking capacity       | 3 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                                                                                                                                                                                                                                                                                                                               |
| Depth                   | 7 mm                                                                                                                                                                                                                                                                                                                              |
| Height                  | 51 mm                                                                                                                                                                                                                                                                                                                             |
| Width                   | 16 mm                                                                                                                                                                                                                                                                                                                             |
| Net weight              | 0.101 kg                                                                                                                                                                                                                                                                                                                          |

### Environment

|                                        |                                                                                              |
|----------------------------------------|----------------------------------------------------------------------------------------------|
| Standards                              | UL 508<br>EN/ISO 12100<br>CSA C22.2 No 14<br>ISO 14119<br>EN/IEC 60204-1<br>EN/IEC 60947-5-1 |
| Product certifications                 | UL<br>CSA                                                                                    |
| 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                | IP67 conforming to IEC 60529                                                                 |

### Packing Units

|                              |          |
|------------------------------|----------|
| Unit Type of Package 1       | PCE      |
| Number of Units in Package 1 | 1        |
| Package 1 Weight             | 44.0 g   |
| Package 1 Height             | 2 cm     |
| Package 1 width              | 6 cm     |
| Package 1 Length             | 20 cm    |
| Unit Type of Package 2       | S02      |
| Number of Units in Package 2 | 40       |
| Package 2 Weight             | 2.102 kg |
| Package 2 Height             | 15 cm    |
| Package 2 width              | 30 cm    |

|                  |       |
|------------------|-------|
| Package 2 Length | 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 |
|----------|-----------|