

# Product datasheet

Specifications



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

Local distributor code: 388806272 XCSDMC590L01M8

EAN Code : 3389118000209

### 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                                 |
| 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            | 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                                   |

|                                |   |
|--------------------------------|---|
| <b>Breaking capacity</b>       | 10 VA   |
| <b>Switching frequency</b>     | 150 Hz  |
| <b>Safety level</b>            | 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 |
| <b>Safety reliability data</b> | B10d = 50000000 value given for a life time of 20 years limited by mechanical or contact wear   |
| <b>Enclosure material</b>      | Thermoplastic PBT   |
| <b>Cable material</b>          | PVC   |
| <b>Depth</b>                   | 7 mm  |
| <b>Height</b>                  | 51 mm   |
| <b>Width</b>                   | 16 mm   |
| <b>Net weight</b>              | 0.101 kg  |

## Environment

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

## Packing Units

|                                     |         |
|-------------------------------------|---------|
| <b>Unit Type of Package 1</b>       | Db      |
| <b>Number of Units in Package 1</b> | 1       |
| <b>Package 1 Height</b>             | 1.9 cm  |
| <b>Package 1 Width</b>              | 15.5 cm |
| <b>Package 1 Length</b>             | 14.8 cm |
| <b>Package 1 Weight</b>             | 44 g    |
| <b>Unit Type of Package 2</b>       | S02     |
| <b>Number of Units in Package 2</b> | 40      |
| <b>Package 2 Height</b>             | 15 cm   |
| <b>Package 2 Width</b>              | 30 cm   |
| <b>Package 2 Length</b>             | 40 cm   |
| <b>Package 2 Weight</b>             | 2.06 kg |

### Offer Sustainability

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|                            |   |
|----------------------------|---|
| 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

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

### Recommended replacement(s)

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