

# XCSDMR591L01M12

Coded magnetic switch, Telemecanique  
Safety switches XCS, XCSDMR, 1 NC + 1 NO,  
staggered, M12 0.15 m



## 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          | Connector on flying lead          |
| Connector Type                 | M12                               |
| Cable length                   | 0.49 ft (0.15 m)                  |
| Number of poles                | 2                                 |
| Local signalling               | 1 LED                             |
| 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            | 57 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               | 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 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 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)                                                                                                                                                                                                                                                                  |

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## Environment

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

## Ordering and shipping details

|                   |                               |
|-------------------|-------------------------------|
| Category          | 22411-LIMIT SWITCHES,IEC,XCKJ |
| Discount Schedule | T                             |
| GTIN              | 3389118000308                 |
| Returnability     | No                            |
| Country of origin | FR                            |

## Packing Units

|                              |                       |
|------------------------------|-----------------------|
| Unit Type of Package 1       | PCE                   |
| Number of Units in Package 1 | 1                     |
| Package 1 Height             | 1.18 in (3.0 cm)      |
| Package 1 Width              | 3.94 in (10.0 cm)     |
| Package 1 Length             | 5.91 in (15.0 cm)     |
| Package 1 Weight             | 3.39 oz (96.0 g)      |
| Unit Type of Package 2       | S02                   |
| Number of Units in Package 2 | 40                    |
| Package 2 Height             | 5.91 in (15.0 cm)     |
| Package 2 Width              | 11.81 in (30.0 cm)    |
| Package 2 Length             | 15.75 in (40.0 cm)    |
| Package 2 Weight             | 9.24 lb(US) (4.19 kg) |

## Offer Sustainability

|                            |                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| California proposition 65  | WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| 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)  <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 |
|----------|-----------|