# Product data sheet
## Characteristics

# XCSDMR5912
## Coded magnetic switch, Telemecanique Safety switches XCS, XCSDMR, 1 NC + 1 NO, staggered, 2 m



### Main

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|---|---|
| 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 mm² |
| Cable length | 6.56 ft (2 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

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|---|---|
| [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) |

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.
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## Environment

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

## Ordering and shipping details

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|---|---|
| Category | 22411-LIMIT SWITCHES,IEC,XCKJ |
| Discount Schedule | T |
| GTIN | 3389110971828 |
| Returnability | No |
| Country of origin | FR |

## Packing Units

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|---|---|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 1.93 in (4.9 cm) |
| Package 1 Width | 5.47 in (13.9 cm) |
| Package 1 Length | 6.18 in (15.7 cm) |
| Package 1 Weight | 5.57 oz (158.0 g) |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 20 |
| 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 | 7.71 lb(US) (3.498 kg) |

## Offer Sustainability

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|---|---|
| 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 www.P65Warnings.ca.gov |
| REACh Regulation | REACh Declaration |
| REACh free of SVHC | Yes |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration |
| Toxic heavy metal free | Yes |
| Mercury free | Yes |
| RoHS exemption information | Yes |

## Contractual warranty

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| Warranty | 18 months |