

# Product data sheet

Specifications



## Coded magnetic switch, Telemecanique Safety switches XCS, XCSDMP, 2 NC + 1 NO, 1 NC staggered, 5 m

XCSDMP7005

### Main

|                                |                                   |
|--------------------------------|-----------------------------------|
| Range of product               | Telemecanique Safety switches XCS |
| Product or component type      | Coded magnetic switch             |
| Component name                 | XCSDMP                            |
| Design                         | Rectangular, standard             |
| Size                           | 88 x 25 x 13 mm                   |
| Contacts type and composition  | 2 NC + 1 NO                       |
| Contact operation              | 1 NC staggered                    |
| Material                       | Plastic                           |
| Electrical connection          | Pre-cabled                        |
| Cable composition              | 6 x 0.25 mm <sup>2</sup>          |
| Cable length                   | 5 m                               |
| Number of poles                | 3                                 |
| Approach directions            | 3 directions                      |
| [Ue] rated operational voltage | 24 V DC                           |
| [Ui] rated insulation voltage  | 100 V DC                          |

### Complementary

|                                        |                                             |
|----------------------------------------|---------------------------------------------|
| [Sa] assured operating distance        | 8 mm                                        |
| [Sar] assured tripping distance        | 20 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                                   |

|                         |                                                                                                                                                                                                                                                                                                                                   |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Breaking capacity       | 10 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                   | 13 mm                                                                                                                                                                                                                                                                                                                             |
| Height                  | 88 mm                                                                                                                                                                                                                                                                                                                             |
| Width                   | 25 mm                                                                                                                                                                                                                                                                                                                             |
| Net weight              | 0.18 kg                                                                                                                                                                                                                                                                                                                           |

## Environment

|                                        |                                                                                              |
|----------------------------------------|----------------------------------------------------------------------------------------------|
| Standards                              | EN/ISO 12100<br>CSA C22.2 No 14<br>EN/IEC 60947-5-1<br>UL 508<br>EN/IEC 60204-1<br>ISO 14119 |
| 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                | IP66 conforming to IEC 60529<br>IP67 conforming to IEC 60529                                 |

## Packing Units

|                              |         |
|------------------------------|---------|
| Unit Type of Package 1       | PCE     |
| Number of Units in Package 1 | 1       |
| Package 1 Height             | 4.9 cm  |
| Package 1 Width              | 23.4 cm |
| Package 1 Length             | 29.2 cm |
| Package 1 Weight             | 342.0 g |
| Unit Type of Package 2       | S02     |
| Number of Units in Package 2 | 14      |
| Package 2 Height             | 15.0 cm |
| Package 2 Width              | 30.0 cm |
| Package 2 Length             | 40.0 cm |
| Package 2 Weight             | 5.15 kg |

|                              |         |
|------------------------------|---------|
| Unit Type of Package 3       | P06     |
| Number of Units in Package 3 | 224     |
| Package 3 Height             | 77.0 cm |
| Package 3 Width              | 80.0 cm |
| Package 3 Length             | 60.0 cm |
| Package 3 Weight             | 90.9 kg |

### 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>                                                                                                                                                                                                                                                                                                                                                               |
| 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> |

### Contractual warranty

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

### Recommended replacement(s)