

# Product datasheet

Specifications



## safety limit switch XCSM - metal - roller plunger - 2 NC + 2 NO - cable 1 m

Local distributor code: 388806971 XCSM4102L1

EAN Code : 3389110244236

### Main

|                               |  |
|-------------------------------|--|
| Range of product              | Telemecanique Safety switches XCS                                    |
| Product or component type     | Safety limit switch  |
| Component name                | XCSM   |
| Design                        | Miniature  |
| Material                      | Metal  |
| Head type                     | Plunger head   |
| Protection technology         | Plastic protective cover, secured by 5-lobe socket head safety screw |
| Type of approach              | Lateral approach   |
| Type of operator              | Roller plunger   |
| Contacts type and composition | 1 NC + 1 NC + 1 NO + 1 NO  |
| Contact operation             | Snap action  |

### Complementary

|                                |  |
|--------------------------------|--|
| Electrical connection          | Pre-cabled   |
| Cable length                   | 1 m  |
| Cable composition              | 9 x 0.34 mm <sup>2</sup>   |
| Switch actuation               | By 30° cam   |
| Fixing mode                    | By the body  |
| Number of poles                | 4  |
| Positive opening               | With NC contact  |
| Mechanical durability          | 10000000 cycles  |
| Minimum force for tripping     | 7 N  |
| Positive opening minimum force | 35 N   |
| Minimum actuation speed        | 0.01 m/min   |
| Maximum actuation speed        | 0.5 m/s  |
| Contact code designation       | B300, AC-15 (Ue = 240 V, Ie = 1.5 A) conforming to EN 60947-5-1<br>B300, AC-15 (Ue = 240 V, Ie = 1.5 A) conforming to EN/IEC 60947-5-1 appendix A<br>R300, DC-13 (Ue = 250 V, Ie = 0.1 A) conforming to EN 60947-5-1<br>R300, DC-13 (Ue = 250 V, Ie = 0.1 A) conforming to EN/IEC 60947-5-1 appendix A |
| [Ui] rated insulation voltage  | 300 V conforming to UL 508<br>400 V (pollution degree 3) conforming to IEC 60947-5-1<br>300 V conforming to CSA C22.2 No 14  |

|   |  |
|---|--|
| <b>[Uimp] rated impulse withstand voltage</b> | 4 kV conforming to IEC 60664<br>4 kV conforming to IEC 60947-1 |
| <b>Maximum resistance across terminals</b>    | 25 MOhm conforming to IEC 60255-7 category 3                   |
| <b>Short-circuit protection</b>               | 6 A cartridge fuse type gG (gl)                                |
| <b>Repeat accuracy</b>                        | 0.05 mm on the tripping points                                 |
| <b>Body material</b>                          | Zamak  |
| <b>Head material</b>                          | Zamak  |
| <b>Depth</b>                                  | 16 mm  |
| <b>Height</b>                                 | 70 mm  |
| <b>Width</b>                                  | 30 mm  |
| <b>Net weight</b>                             | 0.17 kg  |

## Environment

|  |  |
|--|--|
| <b>Standards</b>                             | EN/IEC 60947-5-1<br>UL 508<br>EN/IEC 60204-1<br>EN 1088<br>CSA C22.2 No 14   |
| <b>Product certifications</b>                | CSA<br>UL  |
| <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 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>Protective treatment</b>                  | TC   |
| <b>Ambient air temperature for operation</b> | -25...70 °C  |
| <b>Ambient air temperature for storage</b>   | -40...70 °C  |
| <b>Vibration resistance</b>                  | 5 gn (f= 10...500 Hz) conforming to IEC 60068-2-6  |
| <b>Shock resistance</b>                      | 25 gn for 18 ms conforming to IEC 60068-2-27   |
| <b>Electrical shock protection class</b>     | Class I conforming to NF C 20-030<br>Class I conforming to EN/IEC 61140  |
| <b>IP degree of protection</b>               | IP66 conforming to IEC 60529<br>IP67 conforming to IEC 60529<br>IP68 conforming to IEC 60529   |
| <b>IK degree of protection</b>               | IK06 conforming to EN 50102  |

## Packing Units

|                                     |         |
|-------------------------------------|---------|
| <b>Unit Type of Package 1</b>       | PCE     |
| <b>Number of Units in Package 1</b> | 1       |
| <b>Package 1 Height</b>             | 3.0 cm  |
| <b>Package 1 Width</b>              | 13.0 cm |
| <b>Package 1 Length</b>             | 12.0 cm |
| <b>Package 1 Weight</b>             | 188.0 g |
| <b>Unit Type of Package 2</b>       | PAL     |
| <b>Number of Units in Package 2</b> | 440     |
| <b>Package 2 Height</b>             | 60.0 cm |
| <b>Package 2 Width</b>              | 80.0 cm |

|                              |           |
|------------------------------|-----------|
| Package 2 Length             | 440.0 cm  |
| Package 2 Weight             | 84.92 kg  |
| Unit Type of Package 3       | S03       |
| Number of Units in Package 3 | 55        |
| Package 3 Height             | 30.0 cm   |
| Package 3 Width              | 30.0 cm   |
| Package 3 Length             | 40.0 cm   |
| Package 3 Weight             | 10.925 kg |

## Offer Sustainability

|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product   |
| REACH Regulation           | <a href="#">REACH Declaration</a>   |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope)<br><a href="#">EU RoHS Declaration</a> |
| Mercury free               | Yes   |
| RoHS exemption information | <a href="#">Yes</a>   |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>   |
| Circularity Profile        | <a href="#">End of Life Information</a>   |

## Contractual warranty

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

## Recommended replacement(s)