

# XCSM4102L5

Safety limit switch, Telemecanique Safety switches XCS, XCSM, metal, roller plunger, 2 NC + 2 NO, cable 5 m



## 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                           | 5 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 IEC 60947-5-1<br>B300, AC-15 (Ue = 240 V, Ie = 1.5 A) conforming to IEC 60947-5-1 appendix A<br>R300, DC-13 (Ue = 250 V, Ie = 0.1 A) conforming to IEC 60947-5-1<br>R300, DC-13 (Ue = 250 V, Ie = 0.1 A) conforming to 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  |
| [Uimp] rated impulse withstand voltage | 4 KV conforming to IEC 60664<br>4 kV conforming to IEC 60947-1   |
| Maximum resistance across terminals    | 25 MOhm conforming to IEC 60255-7 category 3   |
| Short-circuit protection               | 6 A cartridge fuse type gG (gl)  |
| Repeat accuracy                        | 0.05 mm on the tripping points   |
| Body material                          | Zamak  |
| Head material                          | Zamak  |
| Depth                                  | 16 mm  |
| Height                                 | 70 mm  |
| Width                                  | 30 mm  |
| Net weight                             | 0.17 kg  |

## Environment

|                                       |  |
|---------------------------------------|--|
| Standards                             | CSA C22.2 No 14<br>IEC 60204-1<br>EN 1088<br>IEC 60947-5-1<br>UL 508   |
| Product certifications                | UL[RETURN]CSA  |
| Safety level                          | Can reach category 4 with the appropriate monitoring system and correctly wired conforming to ISO 13849-1<br>Can reach PL = e with the appropriate monitoring system and correctly wired conforming to ISO 13849-1<br>Can reach SIL 3 with the appropriate monitoring system and correctly wired conforming to IEC 61508 |
| Safety reliability data               | B10d = 50000000 value given for a life time of 20 years limited by mechanical or contact wear  |
| Protective treatment                  | TC   |
| Ambient air temperature for operation | -25...70 °C  |
| Ambient air temperature for storage   | -40...70 °C  |
| Vibration resistance                  | 5 gn (f= 10...500 Hz) conforming to IEC 60068-2-6  |
| Shock resistance                      | 25 gn for 18 ms conforming to IEC 60068-2-27   |
| Electrical shock protection class     | Class I<br>Class I conforming to IEC 61140   |
| IP degree of protection               | IP66 conforming to IEC 60529<br>IP67 conforming to IEC 60529<br>IP68 conforming to IEC 60529   |
| IK degree of protection               | IK06 conforming to IEC 62262   |

## Packing Units

|                              |          |
|------------------------------|----------|
| Unit Type of Package 1       | PCE      |
| Number of Units in Package 1 | 1        |
| Package 1 Height             | 3.0 cm   |
| Package 1 Width              | 18.0 cm  |
| Package 1 Length             | 20.0 cm  |
| Package 1 Weight             | 490.0 g  |
| Unit Type of Package 2       | PAL      |
| Number of Units in Package 2 | 120      |
| Package 2 Height             | 60.0 cm  |
| Package 2 Width              | 80.0 cm  |
| Package 2 Length             | 120.0 cm |
| Package 2 Weight             | 74.0 kg  |
| Unit Type of Package 3       | S03      |
| Number of Units in Package 3 | 15       |
| Package 3 Height             | 30.0 cm  |
| Package 3 Width              | 30.0 cm  |
| Package 3 Length             | 40.0 cm  |
| Package 3 Weight             | 8.26 kg  |

## Offer Sustainability

|  |   |
|--|---|
| Sustainable offer status                   | Green Premium product   |
| 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> |
| For all Reach Rohs enquiries contact us at | <a href="mailto:sustainability@tesensors.com">sustainability@tesensors.com</a>  |

## Contractual warranty

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