

# XCSM3902L1

Safety limit switch, Telemecanique Safety switches XCS, XCSM, metal, roller plunger, 2 NC + 1 NO, cable 1 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                                                   |
| Contact operation             | Snap action                                                          |

## Complementary

|                                        |                                                                                                                                                                                                                                                                                                    |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Electrical connection                  | Pre-cabled                                                                                                                                                                                                                                                                                         |
| Cable length                           | 1 m                                                                                                                                                                                                                                                                                                |
| Cable composition                      | 7 x 0.5 mm <sup>2</sup>                                                                                                                                                                                                                                                                            |
| Switch actuation                       | By 30° cam                                                                                                                                                                                                                                                                                         |
| Fixing mode                            | By the body                                                                                                                                                                                                                                                                                        |
| Number of poles                        | 3                                                                                                                                                                                                                                                                                                  |
| 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                             | EN 1088<br>UL 508<br>IEC 60204-1<br>CSA C22.2 No 14<br>IEC 60947-5-1                                                                                                                                                                                                                                                     |
| Product certifications                | CSA[RETURN]UL                                                                                                                                                                                                                                                                                                            |
| 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             | 2.5 cm   |
| Package 1 Width              | 13.0 cm  |
| Package 1 Length             | 13.0 cm  |
| Package 1 Weight             | 200.0 g  |
| Unit Type of Package 2       | S03      |
| Number of Units in Package 2 | 55       |
| Package 2 Height             | 30 cm    |
| Package 2 Width              | 30 cm    |
| Package 2 Length             | 40 cm    |
| Package 2 Weight             | 11.57 kg |
| Unit Type of Package 3       | P06      |
| Number of Units in Package 3 | 440      |
| Package 3 Height             | 77 cm    |
| Package 3 Width              | 60 cm    |
| Package 3 Length             | 80 cm    |
| Package 3 Weight             | 100 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 |
|----------|-----------|