

# Product data sheet

## Characteristics

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## XCSM3902L2

safety limit switch XCSM - metal - roller plunger

- 2 NC + 1 NO - cable 2 m





### Main

|                               |  |
|-------------------------------|--|
| Range of product              | Preventa Safety detection  |
| Product or component type     | Safety limit switch  |
| Component name                | XCSCM  |
| 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   |
| Contacts operation            | Snap action  |

### Complementary

|  |  |
|--|--|
| Electrical connection                  | Pre-cabled   |
| Cable length                           | 2 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/s   |
| Maximum actuation speed                | 0.5 m/s  |
| Contact code designation               | R300, DC-13 (Ue = 250 V, Ie = 0.1 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>B300, AC-15 (Ue = 240 V, Ie = 1.5 A) conforming to EN/IEC 60947-5-1 appendix A<br>B300, AC-15 (Ue = 240 V, Ie = 1.5 A) conforming to EN 60947-5-1 |
| [Ui] rated insulation voltage          | 400 V (degree of pollution: 3) conforming to IEC 60947-5-1<br>300 V conforming to UL 508<br>300 V conforming to CSA C22-2 No 14  |
| [Uimp] rated impulse withstand voltage | 4 kV conforming to IEC 60947-1<br>4 kV conforming to IEC 60664   |
| 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  |
| CAD overall width                      | 30 mm  |
| CAD overall height                     | 70 mm  |
| CAD overall depth                      | 16 mm  |
| Product weight                         | 0.17 kg  |

## Environment

|  |  |
|--|--|
| Standards                                  | CSA C22-2 No 14<br>EN 1088<br>EN/IEC 60204-1<br>EN/IEC 60947-5-1<br>UL 508   |
| Product certifications                     | CSA<br>UL  |
| Safety level                               | Can reach SIL 3 with the appropriate monitoring system and correctly wired conforming to IEC 61508<br>Can reach PL = e with the appropriate monitoring system and correctly wired conforming to EN/ISO 13849-1<br>Can reach category 4 with the appropriate monitoring system and correctly wired conforming to EN/ISO 13849-1 |
| 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   |
| Class of protection against electric shock | Class I conforming to NF C 20-030<br>Class I conforming to IEC 6140  |
| IP degree of protection                    | IP68 conforming to IEC 60529<br>IP67 conforming to IEC 60529<br>IP66 conforming to IEC 60529   |
| IK degree of protection                    | IK06 conforming to EN 50102  |

## Offer Sustainability

|                                  |   |
|----------------------------------|---|
| Sustainable offer status         | Green Premium product   |
| ROHS                             | Compliant - since 1002 - <a href="#">download declaration of conformity</a> |
| REACH                            | Reference not containing SVHC above the threshold                           |
| Product environmental profile    | Available   |
| Product end of life instructions | Available   |