

# XCSCM4102L5

safety limit switch XCSM - metal - roller plunger  
- 2 NC + 2 NO - cable 5 m



## Main

|                               |                                                                      |
|-------------------------------|----------------------------------------------------------------------|
| Range of product              | Preventa Safety detection                                            |
| 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 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                                                                                                                                                                            |
| [Uimp] rated impulse withstand voltage | IEC 60664 4 kV<br>IEC 60947-1 4 kV                                                                                                                                                                                                                                                                     |
| 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>EN/IEC 60204-1<br>EN 1088<br>EN/IEC 60947-5-1<br>UL 508                                                                                                                                                                                                                                                     |
| Product certifications                | UL<br>CSA                                                                                                                                                                                                                                                                                                                      |
| 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 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 conforming to NF C 20-030<br>Class I conforming to EN/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 EN 50102                                                                                                                                                                                                                                                                                                    |

## Packing Units

|                  |          |
|------------------|----------|
| Package 1 Weight | 0.490 kg |
| Package 1 Height | 0.300 dm |
| Package 1 width  | 1.800 dm |
| Package 1 Length | 2.000 dm |

## 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) <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 |
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