

Product data sheet

Characteristics

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

XCSM4102L5

safety limit switch XCSM - metal - roller plunger

- 2 NC + 2 NO - cable 5 m





Main

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| 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 + 1 NO |
| Contacts operation | Snap action |

Complementary

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| Electrical connection | Pre-cabled |
| Cable length | 5 m |
| Cable composition | 9 x 0.34 mm ² |
| 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/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 R300, DC-13 (Ue = 250 V, Ie = 0.1 A) conforming to EN 60947-5-1 B300, AC-15 (Ue = 240 V, Ie = 1.5 A) conforming to EN/IEC 60947-5-1 appendix A 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 60947-5-1 300 V conforming to UL 508 300 V conforming to CSA C22-2 No 14 |
| [Uimp] rated impulse withstand voltage | 4 kV conforming to IEC 60947-1 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

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

Offer Sustainability

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|----------------------------------|---|
| Sustainable offer status | Green Premium product |
| ROHS | Compliant - since 1002 - download declaration of conformity |
| REACH | Reference not containing SVHC above the threshold |
| Product environmental profile | Available |
| Product end of life instructions | Available |