

# XCSD3702N12

Safety limit switch, Telemecanique Safety switches XCS, metal, roller plunger, 2NC+1 NO, 1 entry tapped 1/2" NPT



## Main

|                               |                                                                      |
|-------------------------------|----------------------------------------------------------------------|
| Range of product              | Telemecanique Safety switches XCS                                    |
| Product or component type     | Safety limit switch                                                  |
| Component name                | XCSD                                                                 |
| Design                        | Compact                                                              |
| Material                      | Metal                                                                |
| Head type                     | Plunger head                                                         |
| Protection technology         | Plastic protective cover, secured by 5-lobe socket head safety screw |
| Type of operator              | Steel roller plunger                                                 |
| Contacts type and composition | 1 NC + 1 NC + 1 NO                                                   |
| Contact operation             | Slow-break, break before make                                        |
| Cable entry                   | 1 entry tapped for 1/2" NPT                                          |

## Complementary

|                                              |                                                                                                                                                                  |
|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Electrical connection                        | Terminal                                                                                                                                                         |
| Clamping connection capacity                 | 1 x 0.34...2 x 0.75 mm <sup>2</sup>                                                                                                                              |
| Switch actuation                             | By 30° cam                                                                                                                                                       |
| Number of poles                              | 3                                                                                                                                                                |
| Positive opening                             | With NC contact                                                                                                                                                  |
| Mechanical durability                        | 10000000 cycles                                                                                                                                                  |
| Minimum force for tripping                   | 12 N                                                                                                                                                             |
| Positive opening minimum force               | 36 N                                                                                                                                                             |
| Maximum actuation speed                      | 0.5 m/s                                                                                                                                                          |
| Contact code designation                     | 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/IEC 60947-5-1 appendix A |
| [Ithe] conventional enclosed thermal current | 6 A                                                                                                                                                              |
| [Ui] rated insulation voltage                | 300 V conforming to UL 508<br>400 V (pollution degree 3) conforming to EN/IEC 60947-1<br>300 V conforming to CSA C22.2 No 14                                     |
| [Uimp] rated impulse withstand voltage       | 4 KV conforming to EN/IEC 60947-1<br>4 kV conforming to IEC 60664                                                                                                |
| 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                              | 0.1 mm on tripping points, 1 million operating cycles for head with end plunger                                                                                  |
| Body material                                | Zamak                                                                                                                                                            |
| Head material                                | Zamak                                                                                                                                                            |
| Enclosure material                           | Plastic                                                                                                                                                          |
| Depth                                        | 35 mm                                                                                                                                                            |
| Height                                       | 100 mm                                                                                                                                                           |
| Width                                        | 34 mm                                                                                                                                                            |
| Net weight                                   | 0.255 kg                                                                                                                                                         |

## Environment

|                                       |                                                                                                                                                                                                                                                                                                                                |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standards                             | EN/IEC 60204-1<br>CSA C22.2 No 14<br>EN 1088/ISO 14119<br>EN/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 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                  | 25 gn (f= 10...500 Hz) conforming to IEC 60068-2-6                                                                                                                                                                                                                                                                             |
| Shock resistance                      | 50 gn for 11 ms conforming to IEC 60068-2-27                                                                                                                                                                                                                                                                                   |
| Electrical shock protection class     | Class I conforming to NF C 20-030                                                                                                                                                                                                                                                                                              |
| IP degree of protection               | IP66 conforming to IEC 60529<br>IP67 conforming to IEC 60529                                                                                                                                                                                                                                                                   |
| IK degree of protection               | IK06 conforming to EN 50102                                                                                                                                                                                                                                                                                                    |

## Packing Units

|                              |         |
|------------------------------|---------|
| Unit Type of Package 1       | PCE     |
| Number of Units in Package 1 | 1       |
| Package 1 Height             | 10.5 cm |
| Package 1 Width              | 3.3 cm  |
| Package 1 Length             | 4.3 cm  |
| Package 1 Weight             | 223.0 g |

## Offer Sustainability

|                                            |                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status                   | Green Premium product                                                                                                                                                                                                                                                                                                                                                             |
| Circularity Profile                        | No need of specific recycling operations                                                                                                                                                                                                                                                                                                                                          |
| 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 |
|----------|-----------|