

Safety limit switch, Telemecanique Safety switches XCS, metal, steel plunger, 2NC + 1 NO, 1 entry tapped Pg 13.5



## 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 approach              | On end approach                                                      |
| Type of operator              | Metal end plunger                                                    |
| Contacts type and composition | 1 NC + 1 NC + 1 NO                                                   |
| Contact operation             | Snap action                                                          |
| Cable entry                   | 1 entry tapped for Pg 13.5                                           |

## Complementary

|                                                           |                                                                                                                                                                                                                  |
|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Electrical connection                                     | Terminal                                                                                                                                                                                                         |
| Clamping connection capacity                              | 1 x 0.34...2 x 0.75 mm <sup>2</sup>                                                                                                                                                                              |
| Number of poles                                           | 3                                                                                                                                                                                                                |
| Positive opening                                          | With NC contact                                                                                                                                                                                                  |
| Mechanical durability                                     | 15000000 cycles                                                                                                                                                                                                  |
| Minimum force for tripping                                | 15 N                                                                                                                                                                                                             |
| Positive opening minimum force                            | 45 N                                                                                                                                                                                                             |
| Minimum actuation speed                                   | 0.01 m/s                                                                                                                                                                                                         |
| Maximum actuation speed                                   | 0.5 m/s                                                                                                                                                                                                          |
| Contact code designation                                  | B300, AC-15 (U <sub>e</sub> = 240 V, I <sub>e</sub> = 1.5 A) conforming to EN/IEC 60947-5-1 appendix A<br>R300, DC-13 (U <sub>e</sub> = 250 V, I <sub>e</sub> = 0.1 A) conforming to EN/IEC 60947-5-1 appendix A |
| [I <sub>th</sub> e] conventional enclosed thermal current | 6 A                                                                                                                                                                                                              |
| [U <sub>i</sub> ] 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                                                                                     |
| [U <sub>imp</sub> ] 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                                                    | 89 mm                                                                                                                                                                                                            |
| Width                                                     | 34 mm                                                                                                                                                                                                            |
| Net weight                                                | 0.215 kg                                                                                                                                                                                                         |

The information provided in this documentation contains general descriptions and/or technical characteristics of the products of the company. This information is not intended to be used 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 TWSS Holding nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

## Environment

|                                       |                                                                                                                                                                                                                                                                                                                                |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standards                             | UL 508<br>EN/IEC 60204-1<br>EN/IEC 60947-5-1<br>CSA C22.2 No 14<br>EN 1088/ISO 14119                                                                                                                                                                                                                                           |
| 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             | 220.0 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 |
|----------|-----------|