

# Product datasheet

Specifications



Safety limit switch, Telemecanique  
Safety switches XCS, metal, steel  
plunger, 2NC+1 NO, 1 entry tapped  
M20 x 1.5

XCSD3910P20

EAN Code : 3389110240658

## 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 M20 x 1.5                                         |

## Complementary

|                                              |                                                                                                                                                                  |
|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Electrical connection                        | Terminal                                                                                                                                                         |
| Clamping connection capacity                 | 1 x 0.34...2 x 0.75 mm²                                                                                                                                          |
| 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 (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                                     |

|                                               |                                                                                 |
|-----------------------------------------------|---------------------------------------------------------------------------------|
| <b>[Uimp] rated impulse withstand voltage</b> | 4 kV conforming to EN/IEC 60947-1<br>4 kV conforming to IEC 60664               |
| <b>Maximum resistance across terminals</b>    | 25 MOhm conforming to IEC 60255-7 category 3                                    |
| <b>Short-circuit protection</b>               | 6 A cartridge fuse type gG (gl)                                                 |
| <b>Repeat accuracy</b>                        | 0.1 mm on tripping points, 1 million operating cycles for head with end plunger |
| <b>Body material</b>                          | Zamak                                                                           |
| <b>Head material</b>                          | Zamak                                                                           |
| <b>Enclosure material</b>                     | Plastic                                                                         |
| <b>Depth</b>                                  | 35 mm                                                                           |
| <b>Height</b>                                 | 89 mm                                                                           |
| <b>Width</b>                                  | 34 mm                                                                           |
| <b>Net weight</b>                             | 0.215 kg                                                                        |

## Environment

|                                              |                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Standards</b>                             | EN 1088/ISO 14119<br>UL 508<br>CSA C22.2 No 14<br>EN/IEC 60947-5-1<br>EN/IEC 60204-1                                                                                                                                                                                                                                           |
| <b>Product certifications</b>                | UL<br>CSA                                                                                                                                                                                                                                                                                                                      |
| <b>Safety level</b>                          | 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 |
| <b>Safety reliability data</b>               | B10d = 50000000 value given for a life time of 20 years limited by mechanical or contact wear                                                                                                                                                                                                                                  |
| <b>Protective treatment</b>                  | TC                                                                                                                                                                                                                                                                                                                             |
| <b>Ambient air temperature for operation</b> | -25...70 °C                                                                                                                                                                                                                                                                                                                    |
| <b>Ambient air temperature for storage</b>   | -40...70 °C                                                                                                                                                                                                                                                                                                                    |
| <b>Vibration resistance</b>                  | 25 gn (f= 10...500 Hz) conforming to IEC 60068-2-6                                                                                                                                                                                                                                                                             |
| <b>Shock resistance</b>                      | 50 gn for 11 ms conforming to IEC 60068-2-27                                                                                                                                                                                                                                                                                   |
| <b>Electrical shock protection class</b>     | Class I conforming to NF C 20-030<br>Class I conforming to EN/IEC 61140                                                                                                                                                                                                                                                        |
| <b>IP degree of protection</b>               | IP66 conforming to IEC 60529<br>IP67 conforming to IEC 60529                                                                                                                                                                                                                                                                   |
| <b>IK degree of protection</b>               | IK06 conforming to EN 50102                                                                                                                                                                                                                                                                                                    |

## Packing Units

|                                     |           |
|-------------------------------------|-----------|
| <b>Unit Type of Package 1</b>       | PCE       |
| <b>Number of Units in Package 1</b> | 1         |
| <b>Package 1 Height</b>             | 3.500 cm  |
| <b>Package 1 Width</b>              | 5.000 cm  |
| <b>Package 1 Length</b>             | 13.200 cm |
| <b>Package 1 Weight</b>             | 196.000 g |
| <b>Unit Type of Package 2</b>       | S01       |
| <b>Number of Units in Package 2</b> | 6         |
| <b>Package 2 Height</b>             | 15.000 cm |

|                  |           |
|------------------|-----------|
| Package 2 Width  | 15.000 cm |
| Package 2 Length | 40.000 cm |
| Package 2 Weight | 1.388 kg  |

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)<br><a href="#">EU RoHS Declaration</a> |
| Mercury free               | Yes                                                                                               |
| RoHS exemption information | <a href="#">Yes</a>                                                                               |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>                                                     |

Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

Recommended replacement(s)