

# XCSA502

Safety switch, Telemecanique Safety switches XCS, metal XCSA, 1 NC + 2 NO, slow break, 1 entry tapped M20



## Main

|                               |                                                                      |
|-------------------------------|----------------------------------------------------------------------|
| Range of Product              | Telemecanique Safety switches XCS                                    |
| Product or Component Type     | Safety switch                                                        |
| Component name                | XCSA                                                                 |
| Design                        | Industrial                                                           |
| Material                      | Metal                                                                |
| Head type                     | Key operated turret head                                             |
| Contacts type and composition | 1 NC + 2 NO                                                          |
| Contact operation             | Slow-break, break before make                                        |
| Cable entry                   | 1 entry tapped M20 x 1.5                                             |
| Cable outer diameter          | 0.28...0.51 in (7...13 mm)                                           |
| Electrical connection         | Terminal 1 x 0.5...2 x 1.5 mm <sup>2</sup> with or without cable end |
| Number of poles               | 3                                                                    |
| Locking options description   | Without locking of actuator                                          |
| Local signalling              | without                                                              |

## Complementary

|                                              |                                                                                                                                                                                                                                                                                         |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Positive opening                             | With NC contact                                                                                                                                                                                                                                                                         |
| Mechanical durability                        | 1000000 cycles                                                                                                                                                                                                                                                                          |
| Minimum actuation speed                      | 0.03 ft/s (0.01 m/s)                                                                                                                                                                                                                                                                    |
| Maximum actuation speed                      | 1.64 ft/s (0.5 m/s)                                                                                                                                                                                                                                                                     |
| [Ie] rated operational current               | 6 A 120 V, AC-15, A300 EN/IEC 60947-5-1<br>3 A 240 V, AC-15, A300 EN/IEC 60947-5-1<br>0.55 A 125 V, DC-13, Q300 EN/IEC 60947-5-1<br>0.27 A 250 V, DC-13, Q300 EN/IEC 60947-5-1                                                                                                          |
| [Ithe] conventional enclosed thermal current | 10 A                                                                                                                                                                                                                                                                                    |
| [Ui] rated insulation voltage                | 300 VUL 508<br>500 VEN/IEC 60947-1<br>300 VCSA C22.2 No 14                                                                                                                                                                                                                              |
| [Uimp] rated impulse withstand voltage       | 6 kV EN/IEC 60947-5-1                                                                                                                                                                                                                                                                   |
| Short-circuit protection                     | 10 A cartridge fuse gG (gl)                                                                                                                                                                                                                                                             |
| Minimum actuator force for extraction        | 20 N                                                                                                                                                                                                                                                                                    |
| Maximum operating rate                       | 10 cyc/mn for maximum durability                                                                                                                                                                                                                                                        |
| Safety level                                 | Can reach category 4 with the appropriate monitoring system and correctly wired EN/ISO 13849-1<br>Can reach PL = e with the appropriate monitoring system and correctly wired EN/ISO 13849-1<br>Can reach SIL 3 with the appropriate monitoring system and correctly wired EN/IEC 61508 |
| Safety reliability data                      | B10d = 5000000 value given for a life time of 20 years limited by mechanical or contact wear                                                                                                                                                                                            |
| Body material                                | Zamak                                                                                                                                                                                                                                                                                   |
| Head material                                | Zamak                                                                                                                                                                                                                                                                                   |
| Depth                                        | 1.73 in (44 mm)                                                                                                                                                                                                                                                                         |
| Height                                       | 4.49 in (114 mm)                                                                                                                                                                                                                                                                        |
| Width                                        | 1.57 in (40 mm)                                                                                                                                                                                                                                                                         |
| Net Weight                                   | 0.97 lb(US) (0.44 kg)                                                                                                                                                                                                                                                                   |

## Environment

|                                       |                                                                                                      |
|---------------------------------------|------------------------------------------------------------------------------------------------------|
| Standards                             | EN/IEC 60204-1<br>EN/ISO 12100<br>CSA C22.2 No 14<br>UL 508<br>EN 1088/ISO 14119<br>EN/IEC 60947-5-1 |
| Product Certifications                | UL<br>CSA                                                                                            |
| Protective treatment                  | TC                                                                                                   |
| Ambient Air Temperature for Operation | -13...158 °F (-25...70 °C)                                                                           |
| Ambient Air Temperature for Storage   | -40...158 °F (-40...70 °C)                                                                           |
| Vibration resistance                  | 5 gn 10...500 Hz)IEC 60068-2-6                                                                       |
| Shock resistance                      | 10 gn 11 ms IEC 60068-2-27                                                                           |
| Electrical shock protection class     | Class I EN/IEC 61140                                                                                 |
| IP degree of protection               | IP67 conforming to EN/IEC 60529 and EN/IEC 60947-5-1                                                 |

## Ordering and shipping details

|                   |                               |
|-------------------|-------------------------------|
| Category          | 22411-LIMIT SWITCHES,IEC,XCKJ |
| Discount Schedule | T                             |
| GTIN              | 3389110718898                 |
| Returnability     | No                            |
| Country of origin | FR                            |

## Packing Units

|                              |                         |
|------------------------------|-------------------------|
| Unit Type of Package 1       | PCE                     |
| Number of Units in Package 1 | 1                       |
| Package 1 Height             | 1.65 in (4.2 cm)        |
| Package 1 Width              | 2.76 in (7.0 cm)        |
| Package 1 Length             | 5.20 in (13.2 cm)       |
| Package 1 Weight             | 17.71 oz (502.0 g)      |
| Unit Type of Package 2       | S02                     |
| Number of Units in Package 2 | 20                      |
| Package 2 Height             | 5.91 in (15.0 cm)       |
| Package 2 Width              | 11.81 in (30.0 cm)      |
| Package 2 Length             | 15.75 in (40.0 cm)      |
| Package 2 Weight             | 22.91 lb(US) (10.39 kg) |

## Offer Sustainability

|                            |                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                                                                                                                                                                                                                                                                             |
| 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> |
| 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>                                                                                                                                                                                                                                                                                                                                     |

## Contractual warranty

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