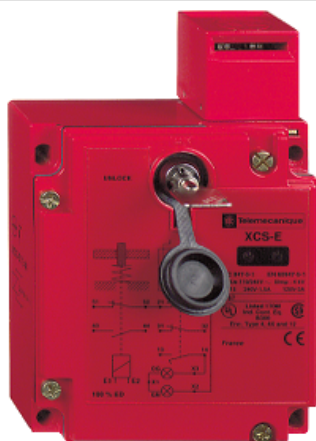




## Main

|                                        |                                                                      |
|----------------------------------------|----------------------------------------------------------------------|
| Range of product                       | Telemecanique Safety switches XCS                                    |
| Product or component type              | Safety switch                                                        |
| Component name                         | XCSE                                                                 |
| Design                                 | Rectangular                                                          |
| Material                               | Metal                                                                |
| Head type                              | Key operated turret head                                             |
| Contacts type and composition          | 1 NC + 2 NO                                                          |
| Contact operation                      | Slow-break, break before make                                        |
| Solenoid contacts type and composition | 1 NC + 1 NO slow-break, simultaneous)                                |
| Cable entry                            | 2 entries tapped M20 x 1.5                                           |
| Electromagnet interlocking             | Locking on energisation and unlocking on de-energisation of solenoid |
| [Us] Solenoid Rated Supply voltage     | 24 V - 20...10 %                                                     |
| 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            | With interlocking, locking by solenoid                               |
| Local signalling                       | Guard open/guard closed and locked 2 LEDs green or orange)           |
| Signalling circuit voltage             | 24/48 V 20...52 V)                                                   |

## Complementary

|                         |                              |
|-------------------------|------------------------------|
| Positive opening        | With NC contact              |
| Supply voltage type     | AC/DC                        |
| Supply frequency        | 50/60 Hz                     |
| Load factor             | 1                            |
| Power consumption in VA | 10 VA inrush<br>10 VA sealed |

|                                              |                                                                                                                                                                                                                                                                                                       |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Signalling circuit type                      | AC/DC                                                                                                                                                                                                                                                                                                 |
| Signalling circuit consumption               | 7 mA                                                                                                                                                                                                                                                                                                  |
| 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               | 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<br>3 A at 120 V, AC-15, B300 conforming to EN/IEC 60947-5-1<br>1.5 A at 240 V, AC-15, B300 conforming to EN/IEC 60947-5-1                                                                                    |
| [Ithe] conventional enclosed thermal current | 6 A                                                                                                                                                                                                                                                                                                   |
| [Ui] rated insulation voltage                | 50 V EN/IEC 60947-1 signalling circuit                                                                                                                                                                                                                                                                |
| [Uimp] rated impulse withstand voltage       | 6 kV EN/IEC 60947-5-1                                                                                                                                                                                                                                                                                 |
| Protection type                              | Overvoltage protection signalling circuit                                                                                                                                                                                                                                                             |
| Short-circuit protection                     | 10 A cartridge fuse type gG (gl)                                                                                                                                                                                                                                                                      |
| Actuator forcible withdrawal rtc             | 2000 N                                                                                                                                                                                                                                                                                                |
| 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 conforming to 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                                       | 5.75 in (146 mm)                                                                                                                                                                                                                                                                                      |
| Width                                        | 3.86 in (98 mm)                                                                                                                                                                                                                                                                                       |
| Net weight                                   | 2.51 lb(US) (1.14 kg)                                                                                                                                                                                                                                                                                 |

## Environment

|                                       |                                                                                                      |
|---------------------------------------|------------------------------------------------------------------------------------------------------|
| Standards                             | EN 1088/ISO 14119<br>EN/ISO 12100<br>CSA C22.2 No 14<br>EN/IEC 60947-5-1<br>EN/IEC 60204-1<br>UL 508 |
| Product certifications                | CSA<br>UL                                                                                            |
| Protective treatment                  | TC                                                                                                   |
| Ambient air temperature for operation | -13...104 °F (-25...40 °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 for 11 ms conforming to 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                                                 |

## Packing Units

|                              |                        |
|------------------------------|------------------------|
| Unit Type of Package 1       | PCE                    |
| Number of Units in Package 1 | 1                      |
| Package 1 Weight             | 2.83 lb(US) (1.283 kg) |
| Package 1 Height             | 2.17 in (5.5 cm)       |
| Package 1 width              | 4.33 in (11 cm)        |
| Package 1 Length             | 6.10 in (15.5 cm)      |
| Unit Type of Package 2       | S02                    |
| Number of Units in Package 2 | 8                      |

|                  |                          |
|------------------|--------------------------|
| Package 2 Weight | 23.35 lb(US) (10.593 kg) |
| Package 2 Height | 5.91 in (15 cm)          |
| Package 2 width  | 11.81 in (30 cm)         |
| Package 2 Length | 15.75 in (40 cm)         |

### 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>                                                     |
| Circularity Profile        | <a href="#">End of Life Information</a>                                                           |

### Contractual warranty

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