

# XCSE75427

Safety switch, Telemecanique Safety switches XCS, metal XCSE, 2NC+1 NO slow break, 2 entries tapped M20 220/240 V



## 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                                  | 2 NC + 1 NO                                                                              |
| Contact operation                                              | Slow-break, break before make                                                            |
| Solenoid contacts type and composition                         | 2 NC (slow-break, simultaneous)                                                          |
| Cable entry                                                    | 2 entries tapped for M20 x 1.5                                                           |
| Electromagnet interlocking                                     | Locking on energisation and unlocking on de-energisation of solenoid                     |
| [Us]&nbsp;solenoid&nbsp;rate&nbsp;of&nbsp;supply. 10 % voltage | 220/240 V supply                                                                         |
| Cable outer diameter                                           | 7...13 mm                                                                                |
| Electrical connection                                          | Terminal, clamping capacity: 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                                               | 2 LEDs (green or orange) for guard open/guard closed and locked                          |
| Signalling circuit voltage                                     | 110/240 V (voltage limits: 95...264 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                                                                                                                                                                                                                                                   |
| Signalling circuit consumption               | 7 mA                                                                                                                                                                                                                                                 |
| Mechanical durability                        | 1000000 cycles                                                                                                                                                                                                                                       |
| Minimum actuation speed                      | 0.01 m/s                                                                                                                                                                                                                                             |
| Maximum actuation speed                      | 0.5 m/s                                                                                                                                                                                                                                              |
| [Ie] rated operational current               | 0.55 A at 125 V, DC-13, Q300 conforming to EN/IEC 60947-5-1<br>0.27 A at 250 V, DC-13, Q300 conforming to 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                | 250 V conforming to EN/IEC 60947-1 for signalling circuit                                                                                                                                                                                            |
| [Uimp] rated impulse withstand voltage       | 6 kV conforming to EN/IEC 60947-5-1                                                                                                                                                                                                                  |
| Protection type                              | Overvoltage protection for 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 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 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                                 | 44 mm                                                                                                                                                                                                                                                                                                                             |
| Height                                | 146 mm                                                                                                                                                                                                                                                                                                                            |
| Width                                 | 98 mm                                                                                                                                                                                                                                                                                                                             |
| Net weight                            | 1.14 kg                                                                                                                                                                                                                                                                                                                           |

## Environment

|                                       |                                                                                                      |
|---------------------------------------|------------------------------------------------------------------------------------------------------|
| Standards                             | UL 508<br>EN/IEC 60204-1<br>EN/IEC 60947-5-1<br>EN/ISO 12100<br>CSA C22.2 No 14<br>EN 1088/ISO 14119 |
| Product certifications                | UL[RETURN]CSA                                                                                        |
| Protective treatment                  | TC                                                                                                   |
| Ambient air temperature for operation | -25...40 °C                                                                                          |
| Ambient air temperature for storage   | -40...70 °C                                                                                          |
| Vibration resistance                  | 5 gn (f= 10...500 Hz) conforming to IEC 60068-2-6                                                    |
| Shock resistance                      | 10 gn for 11 ms conforming to IEC 60068-2-27                                                         |
| Electrical shock protection class     | Class I conforming to 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             | 0.001 g |

## Contractual warranty

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