

# XCSLF2727313

metal safety switch XCSLF - 4 NC - slow break  
- 1 entry tapped 1/2" NPT - 24 V



## Main

|                                        |                                                                                                                                                    |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Range of product                       | Preventa Safety detection                                                                                                                          |
| Product or component type              | Safety switch                                                                                                                                      |
| Component name                         | XCSLF                                                                                                                                              |
| Design                                 | Slim                                                                                                                                               |
| Material                               | Metal                                                                                                                                              |
| Head type                              | Key operated turret head                                                                                                                           |
| Contacts type and composition          | 2 NC                                                                                                                                               |
| Contacts operation                     | Slow-break, simultaneous                                                                                                                           |
| Solenoid contacts type and composition | 2 NC (slow-break, simultaneous)                                                                                                                    |
| Cable entry                            | 3 entries tapped 1/2" NPT                                                                                                                          |
| Electromagnet interlocking             | Locking on de-energisation and unlocking on energisation of solenoid                                                                               |
| [Us] Solenoid Rated Supply Voltage     | 24 V (±15...10 %)                                                                                                                                  |
| Electrical connection                  | Spring terminal, 2 x 0.5 mm <sup>2</sup> flexible cables with 13 mm bared ends<br>Spring terminal, 1 x 1.5 mm <sup>2</sup> flexible or solid cable |
| Number of poles                        | 2                                                                                                                                                  |
| Locking options description            | With interlocking, locking by solenoid                                                                                                             |
| Local signalling                       | 1 LED green (actuator inserted and locked)<br>1 LED orange (actuator withdrawn)                                                                    |
| Signalling circuit voltage             | 24 V                                                                                                                                               |

## Complementary

|                                              |                                                                                                                                                                   |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Positive opening                             | With NC contact                                                                                                                                                   |
| Supply voltage type                          | AC/DC                                                                                                                                                             |
| Supply frequency                             | 50/60 Hz                                                                                                                                                          |
| Load factor                                  | 1                                                                                                                                                                 |
| Signalling circuit type                      | AC/DC                                                                                                                                                             |
| Mechanical durability                        | 1000000 cycles                                                                                                                                                    |
| Minimum actuation speed                      | 0.01 m/s                                                                                                                                                          |
| Maximum actuation speed                      | 0.5 m/s                                                                                                                                                           |
| [Ie] rated operational current               | 0.75 A at 240 V utilisation category AC-15, C300 conforming to EN/IEC 60947-5-1<br>0.55 A at 24 V utilisation category DC-13, R300 conforming to EN/IEC 60947-5-1 |
| [Ithe] conventional enclosed thermal current | 4 A                                                                                                                                                               |
| Maximum load current                         | <= 15 A                                                                                                                                                           |
| [Ui] rated insulation voltage                | 250 V (degree of pollution: 3) conforming to EN/IEC 60947-1<br>300 V conforming to CSA C22.2 No 14<br>300 V conforming to UL 508                                  |
| [Uimp] rated impulse withstand voltage       | 4 kV conforming to EN/IEC 60947-5-1                                                                                                                               |
| Minimum switching current                    | 10 mA at 20 °C                                                                                                                                                    |
| Minimum switching voltage                    | 17 V                                                                                                                                                              |
| Short circuit protection                     | 6 A type fast blow<br>4 A cartridge fuse type gG (gl)                                                                                                             |
| Actutr forcible withdrawal rtc               | <= 3000 N                                                                                                                                                         |
| Actuator force for extraction                | >= 20 N                                                                                                                                                           |

|                                 |                                                                                                                                                                                                                                                                        |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Resistance to mechanical impact | 6.4 J without partition<br>9.6 J against the partition                                                                                                                                                                                                                 |
| Operating rate                  | 10 cyc/mn for maximum durability                                                                                                                                                                                                                                       |
| Safety level                    | Can reach SIL 3 conforming to EN/IEC 61508<br>Can reach PL = e with the appropriate monitoring system and correctly wired conforming to EN/ISO 13849-1<br>Can reach category 4 with the appropriate monitoring system and correctly wired conforming to EN/ISO 13849-1 |
| Safety reliability data         | B10d = 5500000 (value given for a life time of 20 years limited by mechanical or contact wear)                                                                                                                                                                         |
| Body material                   | Zamak                                                                                                                                                                                                                                                                  |
| Head material                   | Zamak                                                                                                                                                                                                                                                                  |
| Depth                           | 51 mm                                                                                                                                                                                                                                                                  |
| Height                          | 205 mm                                                                                                                                                                                                                                                                 |
| Width                           | 44 mm                                                                                                                                                                                                                                                                  |
| Product weight                  | 1.1 kg                                                                                                                                                                                                                                                                 |

## Environment

|                                            |                                                                                                                        |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Standards                                  | EN 1088/ISO 14119<br>EN/IEC 60204-1<br>EN/IEC 60947-5-1<br>EN/IEC 62061<br>EN/ISO 13849-1<br>UL 508<br>CSA C22.2 No 14 |
| Product certifications                     | CSA<br>TÜV<br>UL                                                                                                       |
| Protective treatment                       | TC                                                                                                                     |
| Ambient air temperature for operation      | -25...60 °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                                                                           |
| Class of protection against electric shock | Class I conforming to EN/IEC 60536                                                                                     |
| IP degree of protection                    | IP67<br>IP66 conforming to EN/IEC 60529 and EN/IEC 60947-5-1                                                           |

## Contractual warranty

|        |           |
|--------|-----------|
| Period | 18 months |
|--------|-----------|