



## Main

|                                                          |                                                                                                                                                  |
|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Range of Product                                         | Telemecanique Safety switches XCS                                                                                                                |
| Product or Component Type                                | Safety switch                                                                                                                                    |
| Component name                                           | XCSLF                                                                                                                                            |
| Design                                                   | Slim                                                                                                                                             |
| 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 + 2 NO slow-break, break before make)                                                                                                       |
| Cable entry                                              | 3 entries tapped M20 x 1.5                                                                                                                       |
| Electromagnet interlocking                               | Locking on de-energisation and unlocking on energisation of solenoid                                                                             |
| [Us]&nbsp;solenoid&nbsp;rate&nbsp;of&nbsp;supply voltage | 24 V AC/DC                                                                                                                                       |
| Cable outer diameter                                     | 0.28...0.51 in (7...13 mm)                                                                                                                       |
| Electrical connection                                    | Spring terminal 1 x 1.5 mm <sup>2</sup> flexible or solid cable<br>Spring terminal 2 x 0.5 mm <sup>2</sup> flexible cables with 13 mm bared ends |
| Number of poles                                          | 3                                                                                                                                                |
| Locking options description                              | With interlocking, locking by solenoid                                                                                                           |
| Local signalling                                         | For actuator withdrawn 1 LED (orange)<br>For actuator inserted and locked 1 LED (green)                                                          |
| 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                      | 0.03 ft/s (0.01 m/s)                                                                    |
| Maximum actuation speed                      | 1.64 ft/s (0.5 m/s)                                                                     |
| [Ie] rated operational current               | 0.55 A 24 V, DC-13, R300 EN/IEC 60947-5-1<br>0.75 A 240 V, AC-15, C300 EN/IEC 60947-5-1 |
| [Ithe] conventional enclosed thermal current | 4 A                                                                                     |
| Maximum load current                         | <= 15 A                                                                                 |
| [Ui] rated insulation voltage                | 300 VUL 508<br>300 VCSA C22.2 No 14<br>250 V 3)EN/IEC 60947-1                           |
| [Uimp] rated impulse withstand voltage       | 4 kV EN/IEC 60947-5-1                                                                   |
| Minimum switching current                    | 10 mA at 20 °C                                                                          |
| Minimum switching voltage                    | 17 V                                                                                    |
| Short-circuit protection                     | 4 A cartridge fuse gG (gl)<br>6 A fast blow                                             |

|                                          |                                                                                                                                                                                                                              |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Maximum actuator forcible withdrawal rtc | 3000 N                                                                                                                                                                                                                       |
| Minimum actuator force for extraction    | 20 N                                                                                                                                                                                                                         |
| Resistance to mechanical impact          | 9.6 J against the partition<br>6.4 J without partition                                                                                                                                                                       |
| 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 EN/IEC 61508 |
| 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                                    | 2.01 in (51 mm)                                                                                                                                                                                                              |
| Height                                   | 8.07 in (205 mm)                                                                                                                                                                                                             |
| Width                                    | 1.73 in (44 mm)                                                                                                                                                                                                              |
| Net Weight                               | 2.43 lb(US) (1.1 kg)                                                                                                                                                                                                         |

## Environment

|                                       |                                                                                                                        |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Standards                             | UL 508<br>EN/IEC 60204-1<br>EN/ISO 13849-1<br>EN 1088/ISO 14119<br>CSA C22.2 No 14<br>EN/IEC 60947-5-1<br>EN/IEC 62061 |
| Product Certifications                | UL<br>TÜV<br>CSA                                                                                                       |
| Protective treatment                  | TC                                                                                                                     |
| Ambient Air Temperature for Operation | -13...140 °F (-25...60 °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               | IP66 conforming to EN/IEC 60529 and EN/IEC 60947-5-1<br>IP67                                                           |

## Ordering and shipping details

|                   |                               |
|-------------------|-------------------------------|
| Category          | 22411-LIMIT SWITCHES,IEC,XCKJ |
| Discount Schedule | T                             |
| GTIN              | 3606489413347                 |
| Returnability     | No                            |
| Country of origin | ID                            |

## Packing Units

|                              |                            |
|------------------------------|----------------------------|
| Unit Type of Package 1       | PCE                        |
| Number of Units in Package 1 | 1                          |
| Package 1 Height             | 2.17 in (5.5 cm)           |
| Package 1 Width              | 2.87 in (7.3 cm)           |
| Package 1 Length             | 8.94 in (22.7 cm)          |
| Package 1 Weight             | 2.80 lb(US) (1.27 kg)      |
| Unit Type of Package 2       | PAL                        |
| Number of Units in Package 2 | 128                        |
| Package 2 Height             | 23.62 in (60.0 cm)         |
| Package 2 Width              | 31.50 in (80.0 cm)         |
| Package 2 Length             | 50.39 in (128.0 cm)        |
| Package 2 Weight             | 358.95 lb(US) (162.816 kg) |
| Unit Type of Package 3       | S02                        |

|                              |                         |
|------------------------------|-------------------------|
| Number of Units in Package 3 | 8                       |
| Package 3 Height             | 5.91 in (15.0 cm)       |
| Package 3 Width              | 11.81 in (30.0 cm)      |
| Package 3 Length             | 15.75 in (40.0 cm)      |
| Package 3 Weight             | 23.52 lb(US) (10.67 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>                                                                                                                                                                                                                                                                                                                                     |
| Circularity Profile        | <a href="#">End Of Life Information</a>                                                                                                                                                                                                                                                                                                                                           |

## Contractual warranty

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