

# XCSE7312

Safety switch, Telemecanique Safety switches XCS, metal XCSE, 2NC+1 NO, slow break, 2 entries tapped M20, 24 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           | 1 NC + 1 NO slow-break, simultaneous)                                |
| Cable entry                                      | 2 entries tapped M20 x 1.5                                           |
| Electromagnet interlocking                       | Locking on de-energisation and unlocking on energisation of solenoid |
| [Us]&nbsp;solenoid&nbsp;rate&nbsp;supply voltage | 24/48 V 20...52 V                                                    |
| 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                                 | For 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 120 V, AC-15, B300 EN/IEC 60947-5-1<br>1.5 A 240 V, AC-15, B300 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 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 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)                                                                                                                                                                                                                                                                         |
| Product Weight                        | 2.51 lb(US) (1.14 kg)                                                                                                                                                                                                                                                                   |

## Environment

|                                       |                                                                                                      |
|---------------------------------------|------------------------------------------------------------------------------------------------------|
| Standards                             | EN/IEC 60947-5-1<br>EN/IEC 60204-1<br>EN 1088/ISO 14119<br>CSA C22.2 No 14<br>UL 508<br>EN/ISO 12100 |
| 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 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              | 3389110719581                 |
| Returnability     | Yes                           |
| Country of origin | ID                            |

## Packing Units

|                              |                         |
|------------------------------|-------------------------|
| Unit Type of Package 1       | PCE                     |
| Number of Units in Package 1 | 1                       |
| Package 1 Height             | 2.24 in (5.700 cm)      |
| Package 1 Width              | 4.45 in (11.300 cm)     |
| Package 1 Length             | 6.10 in (15.500 cm)     |
| Package 1 Weight             | 2.90 lb(US) (1.315 kg)  |
| Unit Type of Package 2       | S01                     |
| Number of Units in Package 2 | 4                       |
| Package 2 Height             | 5.91 in (15.000 cm)     |
| Package 2 Width              | 5.91 in (15.000 cm)     |
| Package 2 Length             | 15.75 in (40.000 cm)    |
| Package 2 Weight             | 12.13 lb(US) (5.500 kg) |
| Unit Type of Package 3       | P06                     |
| Number of Units in Package 3 | 128                     |
| Package 3 Height             | 29.53 in (75.000 cm)    |
| Package 3 Width              | 23.62 in (60.000 cm)    |

|                  |                            |
|------------------|----------------------------|
| Package 3 Length | 31.50 in (80.000 cm)       |
| Package 3 Weight | 405.65 lb(US) (184.000 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 |
|----------|-----------|