

# XCSLF353531M3

metal key operated solenoid switch XCSLF -  
2NC+4NO - slow - M23 connector - 24V



## 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                            | 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)                                             |
| 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                                     | 7...13 mm                                                                               |
| Electrical connection                                    | Male connector M23, 19 pins                                                             |
| Number of poles                                          | 3                                                                                       |
| Locking options description                              | With interlocking, locking by solenoid                                                  |
| Local signalling                                         | 1 LED (orange) for actuator withdrawn<br>1 LED (green) for actuator inserted and locked |
| 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               | 1.5 A at 24 V, AC-15 conforming to EN/IEC 60947-5-1<br>0.22 A at 24 V, DC-13 conforming to EN/IEC 60947-5-1               |
| [Ithe] conventional enclosed thermal current | 4 A                                                                                                                       |
| Maximum load current                         | <= 15 A                                                                                                                   |
| [Ui] rated insulation voltage                | 60 V (pollution degree 3) conforming to EN/IEC 60947-1<br>50 V conforming to UL 508<br>50 V conforming to CSA C22.2 No 14 |
| [Uimp] rated impulse withstand voltage       | 0.8 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 type gG (gl)<br>6 A type 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 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 conforming to 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                   | 51 mm                                                                                                                                                                                                                                                                  |
| Height                  | 225 mm                                                                                                                                                                                                                                                                 |
| Width                   | 44 mm                                                                                                                                                                                                                                                                  |
| Net weight              | 1.1 kg                                                                                                                                                                                                                                                                 |

## Environment

|                                       |                                                                                                                        |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Standards                             | UL 508<br>CSA C22.2 No 14<br>EN/IEC 60204-1<br>EN/IEC 60947-5-1<br>EN 1088/ISO 14119<br>EN/ISO 13849-1<br>EN/IEC 62061 |
| Product certifications                | CSA<br>UL<br>TÜV                                                                                                       |
| 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                                                                           |
| Electrical shock protection class     | Class I conforming to EN/IEC 61140                                                                                     |
| IP degree of protection               | IP65 conforming to EN/IEC 60529 and EN/IEC 60947-5-1<br>IP65                                                           |

## Packing Units

|                  |          |
|------------------|----------|
| Package 1 Weight | 1.210 kg |
| Package 1 Height | 0.600 dm |
| Package 1 width  | 0.750 dm |
| Package 1 Length | 2.420 dm |

## Offer Sustainability

|                            |                                                                                                                                                                                      |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 |  Yes                                                                                              |

## Contractual warranty

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