

# XCSLF252531M2

metal key operated solenoid switch XCSLF -  
2NC+2NO - 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 + 1 NO
Contacts operation	Slow-break, break before make
Solenoid contacts type and composition	1 NC + 1 NO (slow-break, break before make)
Electromagnet interlocking	Locking on de-energisation and unlocking on energisation of solenoid
[Us] Solenoid Rated Supply Voltage	24 V (±15...10 %)
Cable outer diameter	7...13 mm
Electrical connection	Male connector M23 16 pins
Number of poles	2
Locking options description	With interlocking, locking by solenoid
Local signalling	1 LED green (actuator inserted and locked) 1 LED orange (actuator withdrawn)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	0.22 A at 24 V utilisation category DC-13 conforming to EN/IEC 60947-5-1 1.5 A at 24 V utilisation category AC-15 conforming to EN/IEC 60947-5-1
[Ithe] conventional enclosed thermal current	4 A
Maximum load current	<= 15 A
[Ui] rated insulation voltage	50 V conforming to CSA C22.2 No 14 50 V conforming to UL 508 60 V (degree of pollution: 3) conforming to EN/IEC 60947-1
[Uimp] rated impulse withstand voltage	0.8 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 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 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 Can reach PL = e with the appropriate monitoring system and correctly wired conforming to EN/ISO 13849-1 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	225 mm
Width	44 mm
Product weight	1.1 kg

## Environment

Standards	EN 1088/ISO 14119 EN/IEC 60204-1 EN/IEC 60947-5-1 EN/IEC 62061 EN/ISO 13849-1 UL 508 CSA C22.2 No 14
Product certifications	CSA TÜV 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 III conforming to EN/IEC 60536
IP degree of protection	IP65 IP65 conforming to EN/IEC 60529 and EN/IEC 60947-5-1

## Contractual warranty

Period	18 months
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