



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	2 NC + 1 NO
Contact operation	Slow-break, break before make
Solenoid contacts type and composition	2 NC + 1 NO (slow-break, break before make)
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	230 V - 15...10 %
Electrical connection	Spring terminal 1 x 1.5 mm ² flexible or solid cable Spring terminal 2 x 0.5 mm ² flexible cables with 13 mm bared ends
Number of poles	3
Locking options description	With interlocking, locking by solenoid
Local signalling	1 LED (orange) for actuator withdrawn 1 LED (green) for actuator inserted and locked
Signalling circuit voltage	230 V

Complementary

Positive opening	With NC contact
Supply voltage type	AC/DC
Supply frequency	50/60 Hz
Load factor	1
Signalling circuit type	AC
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

[I _{th}] conventional enclosed thermal current	4 A
Maximum load current	<= 15 A
[U _i] rated insulation voltage	300 VUL 508 300 VCSA C22.2 No 14 250 V 3)EN/IEC 60947-1
[U _{imp}] 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 type gG (gl) 6 A type fast blow
Maximum actuator forcible withdrawal force	3000 N
Minimum actuator force for extraction	20 N
Resistance to mechanical impact	9.6 J against the partition 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 Can reach PL = e with the appropriate monitoring system and correctly wired EN/ISO 13849-1 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	EN 1088/ISO 14119 EN/IEC 60947-5-1 CSA C22.2 No 14 EN/IEC 62061 EN/IEC 60204-1 UL 508 EN/ISO 13849-1
Product certifications	TÜV CSA UL
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 for 11 ms conforming to IEC 60068-2-27
Electrical shock protection class	Class I EN/IEC 61140
IP degree of protection	IP66 EN/IEC 60529 and EN/IEC 60947-5-1 IP67

Packing Units

Package 1 Weight	2.57 lb(US) (1.167 kg)
Package 1 Height	0.570 dm
Package 1 width	0.730 dm
Package 1 Length	2.280 dm

Contractual warranty

Warranty	18 months
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