Product data sheet
Characteristics

XCSLF373741M3
metal key operated solenoid switch XCSLF - 4NC+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	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)
Electromagnet interlocking	By mushroom head push-button turn to release for escape release Locking on de-energisation and unlocking on energisation of solenoid
[Us] solenoid rated supply voltage	24 V 5…10 %
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Local signalling	1 LED (orange) for actuator withdrawn 1 LED (green) for actuator inserted and locked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	30000 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 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 50 V conforming to UL 508 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) 6 A type fast blow
Maximum actuator forcible withdrawal rtc	3000 N
Minimum actuator force for extraction	20 N

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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 conforming to EN/ISO 13849-1 Can reach PL = e with the appropriate monitoring system and correctly wired conforming to EN/ISO 13849-1 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	113 mm
Height	225 mm
Width	44 mm
Net weight	1.1 kg

Environment

Standards	CSA C22.2 No 14 EN/IEC 62061 UL 508 EN/IEC 60947-5-1 EN 1088/ISO 14119 EN/IEC 60204-1 EN/ISO 13849-1
Product certifications	TÜV UL CSA
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 IP65

Offer Sustainability

EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes

Contractual warranty

Warranty	18 months