

Product data sheet

Characteristics

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XCSM4102L2

safety limit switch XCSM - metal - roller plunger

- 2 NC + 2 NO - cable 2 m





Main

Range of product	Preventa Safety detection
Product or component type	Safety limit switch
Component name	XCSCM
Design	Miniature
Material	Metal
Head type	Plunger head
Protection technology	Plastic protective cover, secured by 5-lobe socket head safety screw
Type of approach	Lateral approach
Type of operator	Roller plunger
Contacts type and composition	1 NC + 1 NC + 1 NO + 1 NO
Contacts operation	Snap action

Complementary

Electrical connection	Pre-cabled
Cable length	2 m
Cable composition	9 x 0.34 mm ²
Switch actuation	By 30° cam
Fixing mode	By the body
Number of poles	4
Positive opening	With NC contact
Mechanical durability	10000000 cycles
Minimum force for tripping	7 N
Positive opening minimum force	35 N
Minimum actuation speed	0.01 m/s
Maximum actuation speed	0.5 m/s
Contact code designation	R300, DC-13 (Ue = 250 V, Ie = 0.1 A) conforming to EN/IEC 60947-5-1 appendix A R300, DC-13 (Ue = 250 V, Ie = 0.1 A) conforming to EN 60947-5-1 B300, AC-15 (Ue = 240 V, Ie = 1.5 A) conforming to EN/IEC 60947-5-1 appendix A B300, AC-15 (Ue = 240 V, Ie = 1.5 A) conforming to EN 60947-5-1
[Ui] rated insulation voltage	400 V (degree of pollution: 3) conforming to IEC 60947-5-1 300 V conforming to UL 508 300 V conforming to CSA C22-2 No 14
[Uimp] rated impulse withstand voltage	4 kV conforming to IEC 60947-1 4 kV conforming to IEC 60664
Resistance across terminals	<= 25 MOhm conforming to IEC 60255-7 category 3
Short circuit protection	6 A cartridge fuse type gG (gl)
Repeat accuracy	0.05 mm on the tripping points
Body material	Zamak
Head material	Zamak
CAD overall width	30 mm
CAD overall height	70 mm
CAD overall depth	16 mm
Product weight	0.17 kg

Environment

Standards	CSA C22-2 No 14 EN 1088 EN/IEC 60204-1 EN/IEC 60947-5-1 UL 508
Product certifications	CSA UL
Safety level	Can reach SIL 3 with the appropriate monitoring system and correctly wired conforming to 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 = 50000000 (value given for a life time of 20 years limited by mechanical or contact wear)
Protective treatment	TC
Ambient air temperature for operation	-25...70 °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	25 gn for 18 ms conforming to IEC 60068-2-27
Class of protection against electric shock	Class I conforming to NF C 20-030 Class I conforming to IEC 6140
IP degree of protection	IP68 conforming to IEC 60529 IP67 conforming to IEC 60529 IP66 conforming to IEC 60529
IK degree of protection	IK06 conforming to EN 50102

Offer Sustainability

Sustainable offer status	Green Premium product
ROHS	Compliant - since 1002 - download declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available