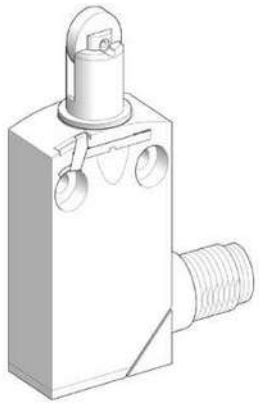
Product datasheet
Characteristics

xcmd2102m12
limit switch XCMD - steel roller plunger - 1C/O - snap - M12



Main

Range of product	OsiSense XC
Series name	Standard format
Product or component type	Limit switch
Device short name	XCMD
Sensor design	Miniature
Body type	Plug-in body
Head type	Plunger head
Material	Metal
Body material	Zamak
Head material	Zamak
Fixing mode	By the body
Movement of operating head	Linear
Type of operator	Spring return roller plunger metal
Type of approach	Lateral approach 2 directions
Number of poles	1
Contacts type and composition	1 C/O
Contacts operation	Snap action

Complementary

Switch actuation	By 30° cam
Electrical connection	Male connector M12, 4 pins
Contacts insulation form	Za
Positive opening	Without
Minimum force for tripping	7 N
Maximum actuation speed	0.5 m/s
[Ie] rated operational current	0.1 A at 250 V, DC-13 conforming to EN/IEC 60947-5-1 appendix A 1.5 A at 240 V, AC-15 conforming to EN/IEC 60947-5-1 appendix A
[Ithe] conventional enclosed thermal current	3 A
[Ui] rated insulation voltage	250 V degree of pollution 3 conforming to IEC 60947-5-1
Resistance across terminals	<= 25 MOhm conforming to IEC 60255-7 category 3
[Uimp] rated impulse withstand voltage	2.5 kV conforming to IEC 60947-1 2.5 kV conforming to IEC 60664
Short circuit protection	4 A by gG cartridge fuse
Electrical durability	5000000 cycles, DC-13, 120 V, 1 W, operating rate: <= 60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C 5000000 cycles, DC-13, 24 V, 3 W, operating rate: <= 60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C 5000000 cycles, DC-13, 48 V, 2 W, operating rate: <= 60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C
Mechanical durability	10000000 cycles
Width	30 mm
Height	50 mm
Depth	16 mm
Product weight	0.09 kg

Environment

Shock resistance	25 gn (duration = 18 ms) conforming to IEC 60068-2-27

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Vibration resistance	5 gn (f = 10...500 Hz) conforming to IEC 60068-2-6
IP degree of protection	IP68 conforming to IEC 60529 IP66 conforming to IEC 60529 IP67 conforming to IEC 60529
IK degree of protection	IK06 conforming to EN 50102
Class of protection against electric shock	Class I conforming to IEC 61140 Class I conforming to NF C 20-030
Ambient air temperature for operation	-25...70 °C
Ambient air temperature for storage	-40...70 °C
Protective treatment	TC
Product certifications	CCC CSA UL
Standards	EN/IEC 60204-1 EN/IEC 60947-5-1 UL 508 CSA C22.2 No 14

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS	Compliant - since 1002 - Schneider Electric declaration of conformity
Product environmental profile	Available
Product end of life instructions	Available