

Product data sheet Characteristics

XCMD2106M12

limit switch XCMD - cat's whisker - 1C/O - snap - M12





Main

Range of product	Telemecanique Limit switches XC Standard
Series name	Standard format
Product or component type	Limit switch
Device short name	XCMD
Sensor design	Miniature
Body type	Plug-in body
Head type	Multi-directional head
Material	Metal
Body material	Zamak
Head material	Zamak
Fixing mode	By the body
Movement of operating head	Multi-directional
Type of operator	Spring return cat"s whisker
Type of approach	Multi-directional approach
Number of poles	1
Contacts type and composition	1 C/O
Contact operation	Snap action

Complementary

Switch actuation	By any moving part
Electrical connection	Male connector M12, 4 pins
Contacts insulation form	Za
Positive opening	Without
Minimum force for tripping	0.1 N
Maximum actuation speed	1 m/s
[le] rated operational current	1.5 A at 240 V, AC-15 conforming to EN/IEC 60947-5-1 appendix A 0.1 A at 250 V, DC-13 conforming to EN/IEC 60947-5-1 appendix A
[Ithe] conventional enclosed thermal current	3 A
[Ui] rated insulation voltage	250 V (pollution degree 3) conforming to IEC 60947-5-1
Maximum resistance across terminals	25 mOhm conforming to IEC 60255-7 category 3
[Uimp] rated impulse withstand voltage	2.5 KV conforming to IEC 60664 2.5 kV conforming to IEC 60947-1
Short-circuit protection	4 A cartridge fuse, type gG
Electrical durability	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 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
Mechanical durability	5000000 cycles
Width	30 mm
Height	50 mm

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not interested for a set of or determining suitability or intelability of these products for specific user applications. It is the documentation is not integrator to perform the appropriate and complete risk analysis, evaluating of the products with respect to the relevant specific application or use thereof. Neither Schmeider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Depth	16 mm
Net weight	0.085 kg
Environment	
Shock resistance	25 gn for 18 ms conforming to IEC 60068-2-27
Vibration resistance	5 gn (f= 10500 Hz) conforming to IEC 60068-2-6
IP degree of protection	IP66 conforming to IEC 60529 IP67 conforming to IEC 60529 IP68 conforming to IEC 60529
IK degree of protection	IK06 conforming to EN 62262
Electrical shock protection class	Class I conforming to IEC 61140 Class I conforming to NF C 20-030
Ambient air temperature for operation	-2570 °C
Ambient air temperature for storage	-4070 °C
Protective treatment	TC
Product certifications	UL[RETURN]CSA[RETURN]CCC
Standards	EN/IEC 60204-1 EN/IEC 60947-5-1 CSA C22.2 No 14 UL 508
Packing Units	
Packing Units Unit Type of Package 1	PCE
	PCE 1
Unit Type of Package 1	
Unit Type of Package 1 Number of Units in Package 1	1
Unit Type of Package 1 Number of Units in Package 1 Package 1 Height	1 2.0 cm
Unit Type of Package 1 Number of Units in Package 1 Package 1 Height Package 1 Width	1 2.0 cm 18.5 cm
Unit Type of Package 1 Number of Units in Package 1 Package 1 Height Package 1 Width Package 1 Length	1 2.0 cm 18.5 cm 7.0 cm
Unit Type of Package 1 Number of Units in Package 1 Package 1 Height Package 1 Width Package 1 Length Package 1 Weight	1 2.0 cm 18.5 cm 7.0 cm
Unit Type of Package 1 Number of Units in Package 1 Package 1 Height Package 1 Width Package 1 Length Package 1 Weight Offer Sustainability	1 2.0 cm 18.5 cm 7.0 cm 97.0 g
Unit Type of Package 1 Number of Units in Package 1 Package 1 Height Package 1 Width Package 1 Length Package 1 Weight Offer Sustainability Sustainable offer status	1 2.0 cm 18.5 cm 7.0 cm 97.0 g
Unit Type of Package 1 Number of Units in Package 1 Package 1 Height Package 1 Width Package 1 Length Package 1 Weight Offer Sustainability Sustainable offer status REACh Regulation	1 2.0 cm 18.5 cm 7.0 cm 97.0 g Green Premium product ☑ REACh Declaration

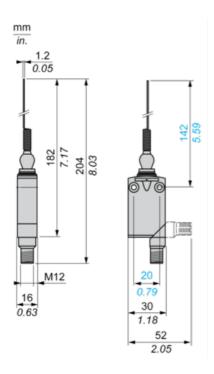
18 months

Contractual warranty

Warranty

XCMD2106M12

Dimensions

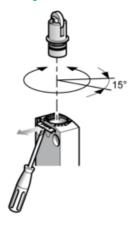


Product data sheet Mounting and Clearance

XCMD2106M12

Setting-up

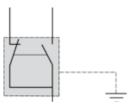
Plunger or Multi-directional Heads



XCMD2106M12

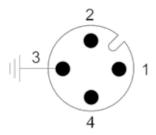
Wiring Diagram

Single-pole CO Snap Action + Integral M12 4-pin Connector



Wiring Diagram

4-pin, M12, 3A-250V

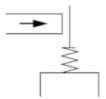


- 1 : Common
- 2 : NC
- 3 : Grounding
- 4 : NO

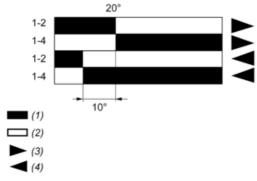
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Characteristics of Actuation

Switch Actuation by Any Moving Part



Functional Diagram



- (1) Closed
- (2) Open
- (3) Tripping
- (4) Resetting