XCMD2502L1

Limit switch, Limit switches XC Standard, XCMD, steel roller plunger, 1NC+1 NO, slow, 1 m





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	Fixed
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	2
Contacts type and composition	1 NC + 1 NO
Contact operation	Slow-break

Complementary

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Switch actuation	By 30° cam	
Electrical connection	Removable cable connector	
Cable length	1 m	
Cable composition	5 x 0.75 mm²	
Wire insulation material	PvR	
Contacts insulation form	Zb	
Positive opening	With	
Positive opening minimum force	35 N	
Minimum force for tripping	7 N	
Maximum actuation speed	0.5 m/s	
Contact code designation	B300, AC-15 (Ue = 240 V), Ie = 1.5 A conforming to EN/IEC 60947-5-1 appendix A R300, DC-13 (Ue = 250 V), Ie = 0.1 A conforming to EN/IEC 60947-5-1 appendix A	
[Ui] rated insulation voltage	300 V (pollution degree 3) conforming to UL 508 400 V (pollution degree 3) conforming to IEC 60947-5-1 300 V (pollution degree 3) conforming to CSA C22.2 No 14	
Maximum resistance across terminals	25 mOhm conforming to IEC 60255-7 category 3	
[Uimp] rated impulse withstand voltage	IEC 60664 4 kV IEC 60947-1 4 kV	
Short-circuit protection	6 A cartridge fuse, type gG	
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
Net weight	0.165 kg

Environment

Shock resistance	25 gn for 18 ms conforming to IEC 60068-2-27	
Vibration resistance	25 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	
Overvoltage category	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 CSA CCC	
Standards	EN/IEC 60947-5-1 EN/IEC 60204-1 CSA C22.2 No 14 UL 508	

Packing Units

Package 1 Weight	0.174 kg	
Package 1 Height	0.300 dm	
Package 1 width	1.900 dm	
Package 1 Length	1.900 dm	

Offer Sustainability

Sustainable offer status	Green Premium product
REACh Regulation	☑ REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EV RoHS Declaration
Mercury free	Yes
RoHS exemption information	₽¥Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	[©] End Of Life Information
	End Of Life Information

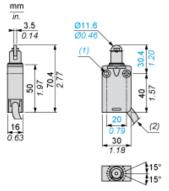
Contractual warranty

Warranty	18 months

Product data sheet **Dimensions Drawings**

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Dimensions



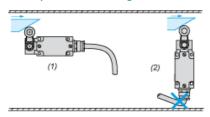
- 2 fixing holes Ø 4.2 mm, counterbored Ø 8 mm by 4 mm deep. External diameter of cable 7.5 mm.

Product data sheet Mounting and Clearance

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Mounting

Sweep of Connecting Cable



(1) Recommended

To be avoided

Setting-up

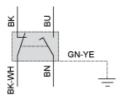
Plunger or Multi-directional Heads



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Wiring Diagram

2-pole N/C + N/O Break before Make, Slow Break



(BK) Black (BK- Black White

WH)

(BU) Blue (BN) Brown

(GN- Green Yellow

YE)

Product data sheet **Technical Description**

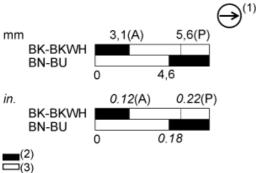
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Characteristics of Actuation

Switch Actuation by 30° Cam



Functional Diagram



- Positive opening point
- (A) Cam displacement
- NC contact with positive opening operation (1)
- (2) Closed (3) Open
- (BK) Black
- (BK- Black White
- WH)
- (BU) Blue
- (BN) Brown