



Limit switch, Limit switches XC Standard, XCMD, steel roller plunger, 1NC+1 NO, snap, 3 m

XCMD2102L3

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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	Snap action

Complementary

Switch actuation	By 30° cam
Electrical connection	Removable cable connector
Cable length	3 m
Cable composition	5 x 0.75 mm ²
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), le = 1.5 A conforming to EN/IEC 60947-5-1 appendix A
oontable oode designation	R300, DC-13 (Ue = 250 V), le = 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
[Uimp] rated impulse withstand voltage	4 kV conforming to IEC 60664 4 kV conforming to IEC 60947-1
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
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
Overvoltage category	Class I
Ambient air temperature for operation	-2570 °C
Product certifications	UL CSA
Standards	EN 60947-5-1 IEC 60947-5-1 CSA C22.2 No 14 UL 508
Packing Units	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.5 cm
Package 1 Width	20.0 cm
Package 1 Length	20.0 cm
Package 1 Weight	334.0 g
Unit Type of Package 2	PAL
Number of Units in Package 2	240

80.0 cm

240.0 cm

82.08 kg

30.0 cm

S03

30

Package 2 Width

Package 2 Length

Package 2 Weight

Package 3 Height

Unit Type of Package 3

Number of Units in Package 3

Package 3 Width	30.0 cm
Package 3 Length	40.0 cm
Package 3 Weight	11.053 kg
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) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
California proposition 65	WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

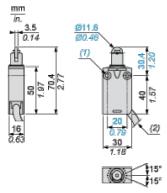
Contractual warranty

Warranty 18 months

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Dimensions Drawings

Dimensions



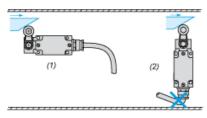
- 2 fixing holes Ø 4.2 mm, counterbored Ø 8 mm by 4 mm deep. External diameter of cable 7.5 mm. (1) (2)

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Mounting and Clearance

Mounting

Sweep of Connecting Cable



- (1) (2) Recommended
- To be avoided

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Mounting and Clearance

Setting-up

Plunger or Multi-directional Heads

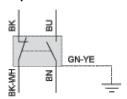


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Connections and Schema

Wiring Diagram

2-pole NC + NO Snap Action



(BK) Black (BK-WH) Black White (BU) Blue (BN) Brown (GN-YE) Green Yellow

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Technical Description

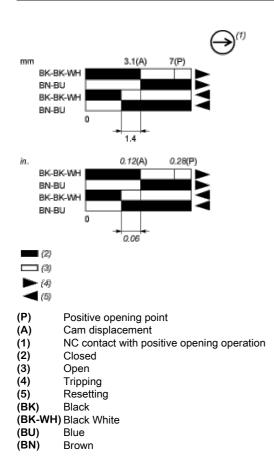
Characteristics of Actuation

Switch Actuation by 30° Cam



Technical Description

Functional Diagram



Recommended replacement(s)