XCMD2102L5

Limit switch, Limit switches XC Standard, XCMD, steel roller plunger, 1NC+1 NO, snap, 5 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	Snap action	

Complementary

Switch actuation	By 30° cam
Electrical connection	Removable cable connector
Cable length	5 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
[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	CSA UL
Standards	EN 60947-5-1 UL 508 IEC 60947-5-1 CSA C22.2 No 14

Packing Units

racking units	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.0 cm
Package 1 Width	20.0 cm
Package 1 Length	20.0 cm
Package 1 Weight	506.0 g
Unit Type of Package 2	P06
Number of Units in Package 2	160
Package 2 Height	60.0 cm
Package 2 Width	80.0 cm
Package 2 Length	60.0 cm
Package 2 Weight	93.884 kg
Unit Type of Package 3	S03
Number of Units in Package 3	20
Package 3 Height	30.0 cm
Package 3 Width	30.0 cm
Package 3 Length	40.0 cm
Package 3 Weight	10.826 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	

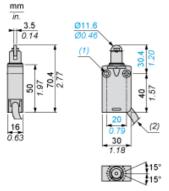
Contractual warranty

Warranty 18	months
-------------	--------

Product data sheet **Dimensions Drawings**

XCMD2102L5

Dimensions



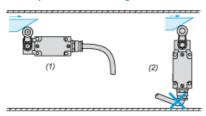
- 2 fixing holes Ø 4.2 mm, counterbored Ø 8 mm by 4 mm deep. External diameter of cable 7.5 mm.

Product data sheet Mounting and Clearance

XCMD2102L5

Mounting

Sweep of Connecting Cable



(1) Recommended

) To be avoided

Setting-up

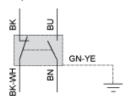
Plunger or Multi-directional Heads



XCMD2102L5

Wiring Diagram

2-pole NC + NO Snap Action



(BK) Black (BK- Black White

WH)

(BU) Blue (BN) Brown

(GN- Green Yellow

YE)

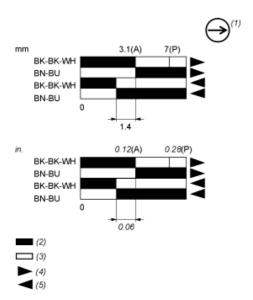
XCMD2102L5

Characteristics of Actuation

Switch Actuation by 30° Cam



Functional Diagram



- Positive opening point
- Cam displacement
- (1) NC contact with positive opening operation
- Closed

- (3) Open (4) Tripping (5) Resetting (BK) Black
- (BK- Black White
- ÙΗ)
- (BU) Blue
- (BN) Brown