XCMD21F2L1

Limit switch, Limit switches XC Standard, XCMD, M12 steel roller plunger, 1NC+1 NO, snap, 1 m





Main

Telemecanique Limit switches XC Standard
Standard format
Limit switch
XCMD
Miniature
Fixed
M12 plunger head
Metal
Zamak
Zamak
By the head
Linear
Spring return roller plunger metal
Lateral approach, 2 directions
2
1 NC + 1 NO
Snap action

Complementary

Complementary	
Switch actuation	By 30° cam
Electrical connection	Removable cable connector
Cable length	1 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	10 cm/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	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
Net weight	0.205 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	
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	CSA UL CCC	
Standards	UL 508 EN/IEC 60204-1 EN/IEC 60947-5-1 CSA C22.2 No 14	

Packing Units

i acking critis	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1.6 cm
Package 1 Width	16.0 cm
Package 1 Length	14.0 cm
Package 1 Weight	193.0 g
Unit Type of Package 2	PAL
Number of Units in Package 2	440
Package 2 Height	60.0 cm
Package 2 Width	80.0 cm
Package 2 Length	440.0 cm
Package 2 Weight	94.6 kg
Unit Type of Package 3	S03
Number of Units in Package 3	55
Package 3 Height	30.0 cm
Package 3 Width	30.0 cm
Package 3 Length	40.0 cm
Package 3 Weight	11.208 kg

Offer Sustainability

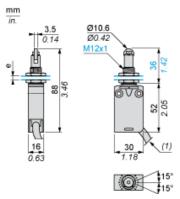
Sustainable offer status	Green Premium product
REACh Regulation	☑ REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
RoHS exemption information	₫Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	☐ End Of Life Information

Warranty 18 months

Product data sheet Dimensions Drawings

XCMD21F2L1

Dimensions

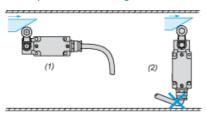


- (1) External diameter of cable 7.5 mm.
- e: 8 mm max, panel cut-out Ø 12.5 mm.

XCMD21F2L1

Mounting

Sweep of Connecting Cable



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

Panel Mounting

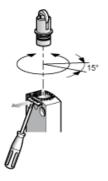
Mounting and Fixing Limit Switches by the Head



- (1) Recommended
- (2) Forbidden

Setting-up

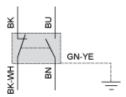
Plunger or Multi-directional Heads



XCMD21F2L1

Wiring Diagram

2-pole NC + NO Snap Action



(BK) Black (BK- Black White WH)

(BU) Blue (BN) Brown

(GN- Green Yellow YE)

Product data sheet Technical Description

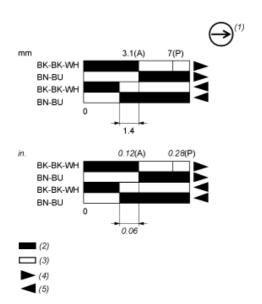
XCMD21F2L1

Characteristics of Actuation

Switch Actuation by 30° Cam



Functional Diagram



- (P) Positive opening point
- (A) Cam displacement
- (1) NC contact with positive opening operation
- (2) Closed
- (3) Open
- (4) Tripping
- (5) Resetting
- (BK) Black
- (BK- Black White
- ÙΗ)
- (BU) Blue
- (BN) Brown