



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

XCMD2102M12

### 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	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 lever thermoplastic
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	Male connector M12, 4 pins
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
[le] rated operational current	1 A at 24 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 erminals	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
Mechanical durability	10000000 cycles
Width	30 mm
Height	50 mm
Depth	16 mm
Product weight	0.09 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 IP69 conforming to IEC 60529
IK degree of protection	IK04 conforming to EN 62262
Electrical shock protection class	Class III conforming to IEC 61140 Class III 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 CCC CSA
Standards	UL 508 CSA C22.2 No 14 EN/IEC 60947-5-1 EN/IEC 60204-1
Packing Units	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1.7 cm
Package 1 Width	7.1 cm
Package 1 Length	5.3 cm
Package 1 Weight	90 g
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
PoUS exemption information	V.

Yes

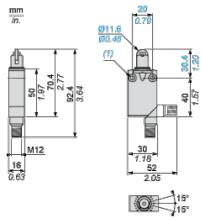
RoHS exemption information

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

## XCMD2102M12

**Dimensions Drawings** 

#### **Dimensions**



(1) 2 fixing holes Ø 4.2 mm, counterbored Ø 8 mm by 4 mm deep.

## XCMD2102M12

Mounting and Clearance

Setting-up

### Plunger or Multi-directional Heads

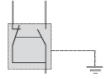


## XCMD2102M12

Connections and Schema

Wiring Diagram

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

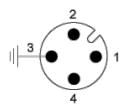


## XCMD2102M12

Connections and Schema

### Wiring Diagram

### 4-pin, M12, 3A-250V



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

## XCMD2102M12

Technical Description

**Characteristics of Actuation** 

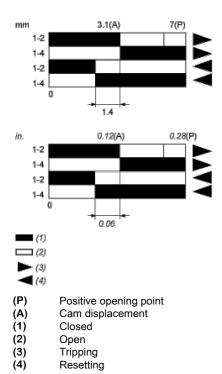
Switch Actuation by 30° Cam



## XCMD2102M12

**Technical Description** 

### **Functional Diagram**



### Recommended replacement(s)