## XCMH2103L3

XCMH Limit Switches Miniature Plastic Steel roller plunger for traverse cam approach NC + NO Snap L3



#### Main

Range of product	Telemecanique Limit switches XC Standard
Series name	Standard format
Product or component type	Limit switch
Device short name	XCMH
Sensor design	Miniature
Body type	Fixed
Head type	Plunger head
Material	Plastic
Body material	Plastic
Head material	Zamak
Fixing mode	By the body
Movement of operating head	Linear
Type of operator	Spring return roller plunger metal
Type of approach	Traverse approach, 2 directions
Number of poles	2
Contacts type and composition	1 NC + 1 NO
Contact operation	Snap action

#### Complementary

By 30° cam
Fixed cable
3 m
4 x 0.34 mm²
PvR
Zb
With
35 N
7 N
0.5 m/s
C300, AC-15 (Ue = 240 V), Ie = 0.75 A conforming to IEC 60947-5-1 appendix A R300, DC-13 (Ue = 250 V), Ie = 0.1 A conforming to IEC 60947-5-1 appendix A
300 V (pollution degree 3) conforming to UL 508 300 V (pollution degree 3) conforming to IEC 60947-5-1 300 V (pollution degree 3) conforming to CSA C22.2 No 14
25 MOhm conforming to IEC 60255-7 category 3
4 KV conforming to IEC 60664 4 kV conforming to IEC 60947-1
6 A cartridge fuse, type gG
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
5000000 cycles
30 mm

Height	70.4 mm
Depth	16 mm
Net weight	0.08 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	
IK degree of protection	IK04 conforming to IEC 62262	
Electrical shock protection class	Class II conforming to IEC 61140 Class II 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	CCC[RETURN]CSA[RETURN]UL	
Standards	CSA C22.2 No 14 IEC 60204-1 IEC 60947-5-1 UL 508	

#### **Packing Units**

r doming office	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1.800 cm
Package 1 Width	16.000 cm
Package 1 Length	18.000 cm
Package 1 Weight	139.000 g
Unit Type of Package 2	S03
Number of Units in Package 2	30
Package 2 Height	30.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	4917.000 kg

## Offer Sustainability

WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
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
For all Reach Rohs enquiries contact us at	sustainability@tesensors.com

## Contractual warranty

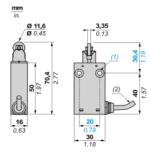
warranty ro months		18 months
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# Product data sheet Dimensions Drawings

# **XCMH2103L3**

#### **Dimensions**



- (1) 2 fixing holes  $\varnothing$  4.2 mm (0.16 in.), counterbored  $\varnothing$  8 mm by 4 mm deep (counterbored  $\varnothing$  0.32 in. by 0.16 in. deep).
- (2) Cable external diameter: 4.2 mm (0.16 in.)

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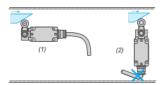
#### Mounting and Clearance

## Mounting: distance required for connection



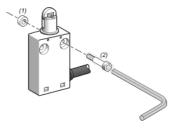
d: min.15 mm/min.0.59 in.

#### **Sweep of Connecting Cable**



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

#### Mounting with Spacers



(1): 2 spacers supplied with the switch(2): 2 screws Ø 4mm (not included)

## Product data sheet Connections and Schema

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## Wiring diagram

## 2-pole NC + NO snap action



(BK) Black

(WH) White

(BN) Brown

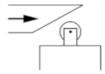
(BU) Blue

# Product data sheet Technical Description

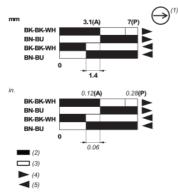
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#### **Characteristics of Actuation**

#### 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-WH) Black White
- (BN) Brown
- (BU) Blue