XCMH21F2L1

XCMH Limit Switches Miniature Plastic M12 head metal roller plunger NC + NO Snap L1



Main

Range of product	Telemecanique Limit switches XC Standard
Series name	Standard format
Product or component type	Limit switch
	VOLUL
Device short name	XCMH
Sensor design	Miniature
Body type	Fixed
Head type	M12 plunger head
Material	Plastic
Body material	Plastic
Head material	Zamak
Fixing mode	By the head
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

Complementary	
Switch actuation	By 30° cam
Electrical connection	Fixed cable
Cable length	1 m
Cable composition	4 x 0.34 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	10 cm/s
Contact code designation	C300, AC-15 (Ue = 240 V), le = 0.75 A conforming to IEC 60947-5-1 appendix A R300, DC-13 (Ue = 250 V), le = 0.1 A conforming to 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	5000000 cycles
Width	30 mm
Height	88 mm

Depth	16 mm
Net weight	0.095 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	CSA[RETURN]CCC[RETURN]UL
Standards	IEC 60947-5-1 IEC 60204-1 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	1.6 cm
Package 1 Width	20 cm
Package 1 Length	25 cm
Package 1 Weight	91 g
Unit Type of Package 2	S02
Number of Units in Package 2	30
Package 2 Height	15 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	3.894 kg
Tackage 2 Weight	0.004 Ng
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	
144	40



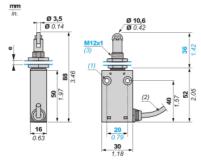
18 months

Warranty

Product data sheet Dimensions Drawings

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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.)
- (3) Fixing nut thickness 3.5 mm (0.13 in.).
- e: 8 mm (0.32 in.) max, panel cut-out Ø 12.5 mm (0.49 in.).

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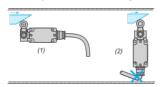
Mounting and Clearance

Mounting: distance required for connection



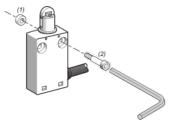
d: min.15 mm/min.0.59 in.

Sweep of Connecting Cable



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

Mounting with Spacers

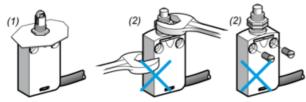


(1): 2 spacers supplied with the switch

(2): 2 screws Ø 4mm (not included)

Panel Mounting

Mounting and Fixing Limit Switches by the Head



(1) Recommended

(2) Forbidden

Product data sheet Connections and Schema

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Wiring diagram

2-pole NC + NO snap action



(BK) Black

(WH) White

(BN) Brown

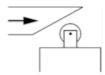
(BU) Blue

Product data sheet Technical Description

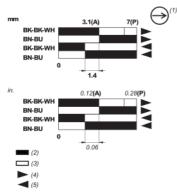
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Characteristics of Actuation

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