

XCMN2107L1

Limit switch, Limit switches XC Standard, XCMN, metal end plunger, 1NC+1 NO, snap, 1 m



Main

Range of Product	Telemecanique Limit switches XC Standard
Series name	Standard format
Product or Component Type	Limit switch
Device short name	XCMN
Sensor design	Miniature
Body type	Fixed
Head type	Multi-directional head
Material	Plastic
Body Material	Plastic
Head material	Zamak
Fixing Mode	By the body
Movement of operating head	Multi-directional
Type of operator	Spring return spring rod with thermoplastic end
Type of approach	Multi-directional approach
Number of poles	2
Contacts type and composition	1 NC + 1 NO
Contact operation	Snap action

Complementary

Switch actuation	By any moving part
Electrical connection	Fixed cable
Cable length	3.28 ft (1 m)
Cable composition	4 x 0.75 mm ²
Wire insulation material	PvR
Contacts insulation form	Zb
Positive opening	Without
Minimum force for tripping	0.1 N
Maximum actuation speed	3.28 ft/s (1 m/s)
Contact code designation	B300, AC-15 (Ue = 240 V), Ie = 1.5 A EN/IEC 60947-5-1 appendix A R300, DC-13 (Ue = 250 V), Ie = 0.1 A EN/IEC 60947-5-1 appendix A
[Ui] rated insulation voltage	300 V 3)UL 508 400 V 3)IEC 60947-5-1 300 V 3)CSA C22.2 No 14
Maximum resistance across terminals	25 MOhm IEC 60255-7 category 3
[Uimp] rated impulse withstand voltage	4 kV IEC 60664 4 kV IEC 60947-1
Short-circuit protection	6 A cartridge fuse gG
Electrical durability	5000000 Cycles, DC-13, 120 V, 1 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C 5000000 Cycles, DC-13, 24 V, 3 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C 5000000 cycles, DC-13, 48 V, 2 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C
Mechanical durability	5000000 cycles
Width	1.18 in (30 mm)
Height	6.61 in (168 mm)
Depth	0.63 in (16 mm)
Product Weight	0.19 lb(US) (0.085 kg)

Environment

Shock resistance	25 gn 18 ms IEC 60068-2-27
Vibration resistance	5 gn 10...500 Hz)IEC 60068-2-6
IP degree of protection	IP65 conforming to IEC 60529
IK degree of protection	IK04 EN 50102
Electrical shock protection class	Class II IEC 61140 Class II NF C 20-030
Ambient Air Temperature for Operation	-13...158 °F (-25...70 °C)
Ambient Air Temperature for Storage	-40...158 °F (-40...70 °C)
Protective treatment	TC
Product Certifications	CSA CCC UL
Standards	CSA C22.2 No 14 EN/IEC 60947-5-1 EN/IEC 60204-1 UL 508

Ordering and shipping details

Category	22413-LIMIT SWITCH, IEC, MINIATURE
Discount Schedule	T
GTIN	3389110215069
Returnability	No
Country of origin	ID

Packing Units

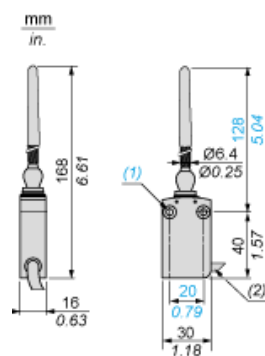
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	0.67 in (1.7 cm)
Package 1 Width	6.57 in (16.7 cm)
Package 1 Length	5.91 in (15.0 cm)
Package 1 Weight	4.20 oz (119.0 g)
Unit Type of Package 2	S03
Number of Units in Package 2	80
Package 2 Height	11.81 in (30 cm)
Package 2 Width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)
Package 2 Weight	22.56 lb(US) (10.233 kg)
Unit Type of Package 3	PAL
Number of Units in Package 3	640
Package 3 Height	30.31 in (77.0 cm)
Package 3 Width	31.50 in (80.0 cm)
Package 3 Length	23.62 in (60.0 cm)
Package 3 Weight	237.04 lb(US) (107.52 kg)

Offer Sustainability

Sustainable offer status	Green Premium product
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
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

Dimensions



- (1) 2 fixing holes $\varnothing$ 4.2 mm, counterbored $\varnothing$ 8 mm by 4 mm deep.
- (2) External diameter 7.5 mm.

Mounting

Sweep of Connecting Cable



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

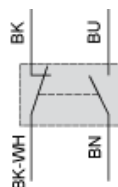
Setting-up

Plunger or Multi-directional Heads



Wiring diagram

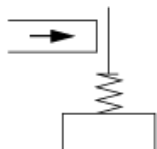
2-pole NC + NO Snap Action



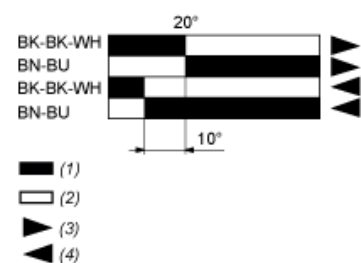
(BK) Black
(BK- Black White
WH)
(BN) Brown
(BU) Blue

Characteristics of Actuation

Switch Actuation by Any Moving Part



Functionnal Diagram



- (1) Closed
- (2) Open
- (3) Tripping
- (4) Resetting
- (BK) Black
- (BK- Black White
- WH)
- (BN) Brown
- (BU) Blue