

# XCMN2110L1

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                     | 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 plunger metal              |
| Type of approach              | Vertical approach, 1 direction           |
| Number of poles               | 2  |
| Contacts type and composition | 1 NC + 1 NO                              |
| Contact operation             | Snap action                              |

## Complementary

|  |   |
|--|---|
| Switch actuation                       | On end  |
| Electrical connection                  | Fixed cable   |
| Cable length                           | 1 m   |
| Cable composition                      | 4 x 0.75 mm <sup>2</sup>  |
| Wire insulation material               | PvR   |
| Contacts insulation form               | Zb  |
| Positive opening                       | With  |
| Positive opening minimum force         | 42.5 N  |
| Minimum force for tripping             | 8.5 N   |
| Minimum actuation speed                | 0.01 m/min  |
| Maximum actuation speed                | 0.5 m/s   |
| Contact code designation               | B300, AC-15 (U <sub>e</sub> = 240 V), I <sub>e</sub> = 1.5 A conforming to IEC 60947-5-1 appendix A<br>R300, DC-13 (U <sub>e</sub> = 250 V), I <sub>e</sub> = 0.1 A conforming to IEC 60947-5-1 appendix A  |
| [Ui] rated insulation voltage          | 300 V (pollution degree 3) conforming to UL 508<br>400 V (pollution degree 3) conforming to IEC 60947-5-1<br>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<br>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<br>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<br>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     | 60 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= 10...500 Hz) conforming to IEC 60068-2-6                      |
| IP degree of protection               | IP65 conforming to IEC 60529   |
| IK degree of protection               | IK04 conforming to IEC 62262   |
| Electrical shock protection class     | Class II conforming to IEC 61140<br>Class II conforming to NF C 20-030 |
| Ambient air temperature for operation | -25...70 °C  |
| Ambient air temperature for storage   | -40...70 °C  |
| Protective treatment                  | TC   |
| Product certifications                | CSA[RETURN]CCC[RETURN]UL   |
| Standards                             | IEC 60947-5-1<br>CSA C22.2 No 14<br>IEC 60204-1<br>UL 508              |

## Packing Units

|                              |          |
|------------------------------|----------|
| Unit Type of Package 1       | PCE      |
| Number of Units in Package 1 | 1        |
| Package 1 Height             | 2.5 cm   |
| Package 1 Width              | 19.0 cm  |
| Package 1 Length             | 23.0 cm  |
| Package 1 Weight             | 108.0 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             | 3.863 kg |
| Unit Type of Package 3       | P06      |
| Number of Units in Package 3 | 480      |
| Package 3 Height             | 75 cm    |
| Package 3 Width              | 60 cm    |
| Package 3 Length             | 80 cm    |
| Package 3 Weight             | 68.8 kg  |

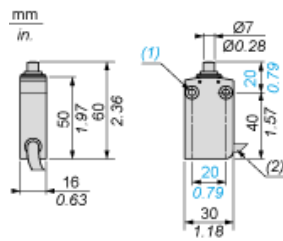
## Offer Sustainability

|  |   |
|--|---|
| 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| For all Reach Rohs enquiries contact us at | <a href="mailto:sustainability@tesensors.com">sustainability@tesensors.com</a>  |

## Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

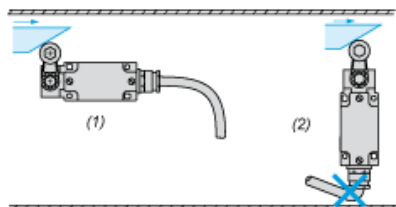
Dimensions



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

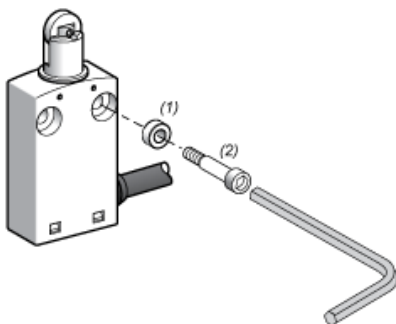
## Mounting

### Sweep of Connecting Cable



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

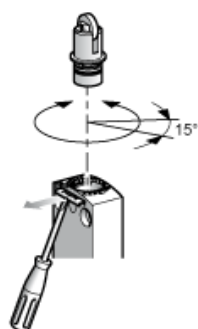
### Mounting with Spacers



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

## Setting-up

### Plunger or Multi-directional Heads

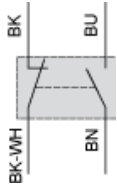


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Wiring diagram

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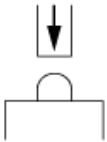
2-pole NC + NO Snap Action



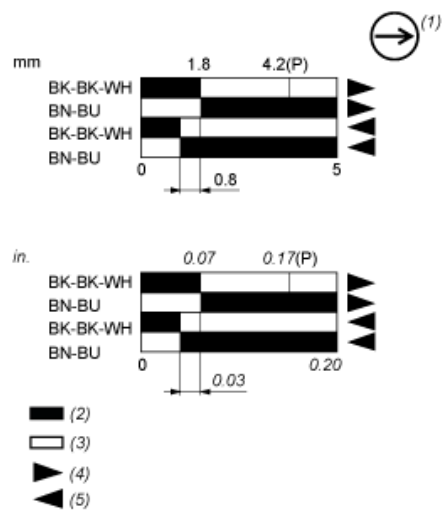
- (BK) Black
- (BK- Black White  
WH)
- (BN) Brown
- (BU) Blue

Characteristics of Actuation

Switch Actuation on End



Functionnal Diagram



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