

# XCMN2121L1

limit switch XCMN - th.plastic roller lever plung.  
Hor - 1NC+1NO - snap - 1 m



## Main

|                               |                                                  |
|-------------------------------|--------------------------------------------------|
| Range of product              | OsiSense XC                                      |
| 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 roller lever plunger thermoplastic |
| Type of approach              | Lateral approach 1 direction                     |
| Number of poles               | 2                                                |
| Contacts type and composition | 1 NC + 1 NO                                      |
| Contacts operation            | Snap action                                      |

## Complementary

|                                        |                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Switch actuation                       | By 30° cam                                                                                                                                                                                                                                                                                                                                                                     |
| 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         | 12.5 N                                                                                                                                                                                                                                                                                                                                                                         |
| Minimum force for tripping             | 2.5 N                                                                                                                                                                                                                                                                                                                                                                          |
| Maximum actuation speed                | 1 m/s                                                                                                                                                                                                                                                                                                                                                                          |
| Contact code designation               | B300, AC-15 (Ue = 240 V, Ie = 1.5 A) conforming to EN/IEC 60947-5-1 appendix A<br>R300, DC-13 (Ue = 250 V, Ie = 0.1 A) conforming to EN/IEC 60947-5-1 appendix A                                                                                                                                                                                                               |
| [Ui] rated insulation voltage          | 300 V degree of pollution 3 conforming to UL 508<br>400 V degree of pollution 3 conforming to IEC 60947-5-1<br>300 V degree of pollution 3 conforming to CSA C22.2 No 14                                                                                                                                                                                                       |
| 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 by gG cartridge fuse                                                                                                                                                                                                                                                                                                                                                       |
| 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         | 79 mm   |
| Depth          | 16 mm   |
| Product weight | 0.09 kg |

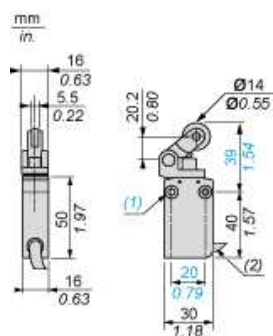
## Environment

|                                            |                                                                        |
|--------------------------------------------|------------------------------------------------------------------------|
| Shock resistance                           | 25 gn (duration = 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 EN 50102                                            |
| Class of protection against electric shock | 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                     | CCC<br>CSA<br>UL                                                       |
| Standards                                  | EN/IEC 60204-1<br>EN/IEC 60947-5-1<br>UL 508<br>CSA C22.2 No 14        |

## Offer Sustainability

|                          |                                                                                       |
|--------------------------|---------------------------------------------------------------------------------------|
| Sustainable offer status | Not Green Premium product                                                             |
| RoHS (date code: YYWW)   | Compliant - since 0944 - <a href="#">Schneider Electric declaration of conformity</a> |
| REACH                    | Reference not containing SVHC above the threshold                                     |

## Dimensions



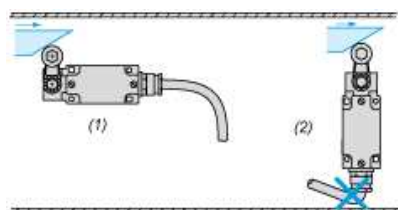
- (1) 2 fixing holes  $\varnothing 4.2$  mm, counterbored  $\varnothing 8$  mm by 4 mm deep.  
(2) External diameter 7.5 mm.

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## Mounting

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### Sweep of Connecting Cable



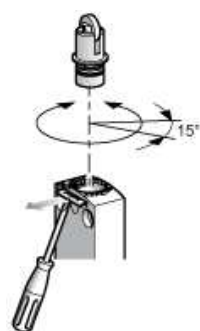
- (1) Recommended
- (2) To be avoided

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## Setting-up

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### Plunger or Multi-directional Heads



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## Wiring diagram

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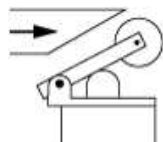
### 2-pole NC + NO Snap Action



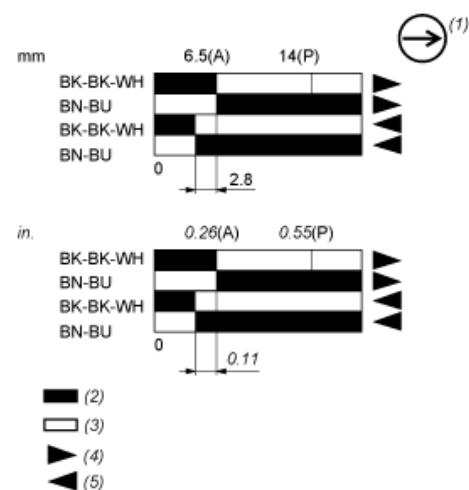
(BK) Black  
(BK- Black White  
WH)  
(BN) Brown  
(BU) Blue

## Characteristics of Actuation

### Switch Actuation by 30° Cam



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