

# XCMD2106L1

limit switch XCMD - cat's whisker - 1NC+1NO -  
snap - 1 m



## Main

|                               |                             |
|-------------------------------|-----------------------------|
| Range of product              | OsiSense XC                 |
| Series name                   | Standard format             |
| Product or component type     | Limit switch                |
| Device short name             | XCMD                        |
| Sensor design                 | Miniature                   |
| Body type                     | Fixed                       |
| Head type                     | Multi-directional head      |
| Material                      | Metal                       |
| Body material                 | Zamak                       |
| Head material                 | Zamak                       |
| Fixing mode                   | By the body                 |
| Movement of operating head    | Multi-directional           |
| Type of operator              | Spring return cat's whisker |
| Type of approach              | Multi-directional approach  |
| Number of poles               | 2                           |
| Contacts type and composition | 1 NC + 1 NO                 |
| Contacts operation            | Snap action                 |

## Complementary

|                                        |                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Switch actuation                       | By any moving part                                                                                                                                                                                                                                                                                                                                                             |
| Electrical connection                  | Removable cable connector                                                                                                                                                                                                                                                                                                                                                      |
| Cable length                           | 1 m                                                                                                                                                                                                                                                                                                                                                                            |
| Cable composition                      | 5 x 0.75 mm <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                       |
| Wire insulation material               | PvR                                                                                                                                                                                                                                                                                                                                                                            |
| Contacts insulation form               | Zb                                                                                                                                                                                                                                                                                                                                                                             |
| Positive opening                       | Without                                                                                                                                                                                                                                                                                                                                                                        |
| Minimum force for tripping             | 0.1 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         | 50 mm   |
| Depth          | 16 mm   |
| Product weight | 0.18 kg |

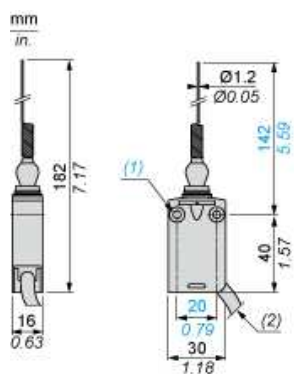
## Environment

|                                       |                                                                                              |
|---------------------------------------|----------------------------------------------------------------------------------------------|
| 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               | IP66 conforming to IEC 60529<br>IP67 conforming to IEC 60529<br>IP68 conforming to IEC 60529 |
| IK degree of protection               | IK06 conforming to EN 50102                                                                  |
| Overvoltage category                  | Class I conforming to IEC 61140<br>Class I 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         | Green Premium product                                                                 |
| RoHS (date code: YYWW)           | Compliant - since 1002 - <a href="#">Schneider Electric declaration of conformity</a> |
| REACH                            | Reference not containing SVHC above the threshold                                     |
| Product environmental profile    | Available <a href="#">Download Product Environmental</a>                              |
| Product end of life instructions | Need no specific recycling operations                                                 |

## Dimensions



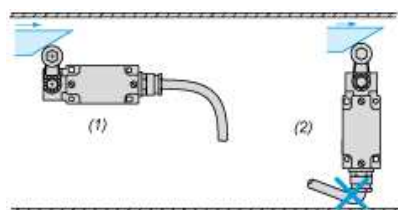
- (1) 2 fixing holes  $\varnothing 4.2$  mm, counterbored  $\varnothing 8$  mm by 4 mm deep.  
(2) External diameter of cable 7.5 mm.

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## Mounting

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### Sweep of Connecting Cable



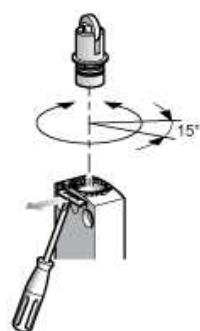
- (1) Recommended
- (2) To be avoided

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## Setting-up

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### Plunger or Multi-directional Heads

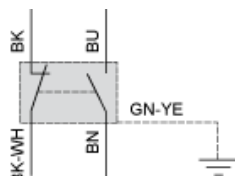


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## Wiring Diagram

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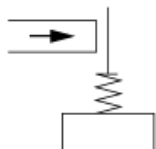
### 2-pole NC + NO Snap Action



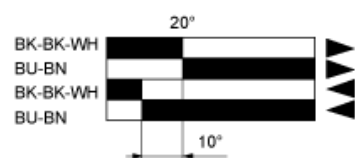
(BK) Black  
(BK- Black White  
WH)  
(BU) Blue  
(BN) Brown  
(GN- Green Yellow  
YE)

## Characteristics of Actuation

### Switch Actuation by Any Moving Part



## Functionnal Diagram



- (1) Closed
- (2) Open
- (3) Tripping
- (4) Resetting

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- (2) Open
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- (BK) Black
- (BK- Black White
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- (BU) Blue
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