

# XCMD2511L1

Limit switch, Limit switches XC Standard, XCMD, metal end plunger with nitrile boot, 1NC +1 NO, slow, 1 m



## Main

|                               |   |
|-------------------------------|---|
| Range of product              | Telemecanique Limit switches XC Standard        |
| Series name                   | Standard format                                 |
| Product or component type     | Limit switch                                    |
| Device short name             | XCMD  |
| Sensor design                 | Miniature                                       |
| Body type                     | Fixed   |
| Head type                     | Plunger head                                    |
| Material                      | Metal   |
| Body material                 | Zamak   |
| Head material                 | Zamak   |
| Fixing mode                   | By the body                                     |
| Movement of operating head    | Linear  |
| Type of operator              | Spring return plunger metal with elastomer boot |
| Type of approach              | Vertical approach, 1 direction                  |
| Number of poles               | 2   |
| Contacts type and composition | 1 NC + 1 NO                                     |
| Contact operation             | Slow-break                                      |

## Complementary

|  |   |
|--|---|
| Switch actuation                       | On end  |
| 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                       | With  |
| Positive opening minimum force         | 42.5 N  |
| Minimum force for tripping             | 8.5 N   |
| Minimum actuation speed                | 6 m/min   |
| Maximum actuation speed                | 0.5 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 (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 | IEC 60664 4 kV<br>IEC 60947-1 4 kV  |
| Short-circuit protection               | 6 A cartridge fuse, type gG   |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

|                       |   |
|-----------------------|---|
| 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 | 10000000 cycles   |
| Width                 | 30 mm   |
| Height                | 50 mm   |
| Depth                 | 16 mm   |
| Net weight            | 0.18 kg   |

## Environment

|                                       |  |
|---------------------------------------|--|
| Shock resistance                      | 25 gn for 18 ms conforming to IEC 60068-2-27   |
| Vibration resistance                  | 25 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 62262  |
| 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                | CSA<br>CCC<br>UL   |
| Standards                             | UL 508<br>EN/IEC 60204-1<br>EN/IEC 60947-5-1<br>CSA C22.2 No 14                              |

## Packing Units

|                  |           |
|------------------|-----------|
| Package 1 Weight | 317.515 g |
|------------------|-----------|

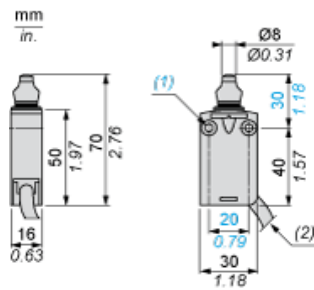
## Offer Sustainability

|                            |  |
|----------------------------|--|
| Sustainable offer status   | Green Premium product  |
| REACH Regulation           | <a href="#">REACH Declaration</a>  |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a> |
| Mercury free               | Yes  |
| RoHS exemption information | <a href="#">Yes</a>  |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>  |
| Circularity Profile        | <a href="#">End Of Life Information</a>  |

## Contractual warranty

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

Dimensions



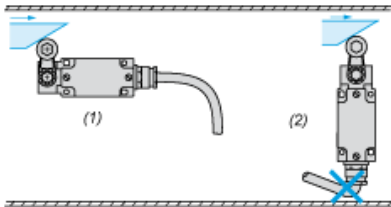
- (1) 2 fixing holes Ø 4.2 mm, counterbored Ø 8 mm by 4 mm deep.
- (2) External diameter of cable 7.5 mm.

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## Mounting

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### Sweep of Connecting Cable



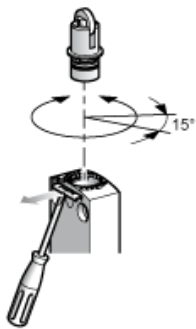
- (1) Recommended
- (2) To be avoided

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## Setting-up

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### Plunger or Multi-directional Heads

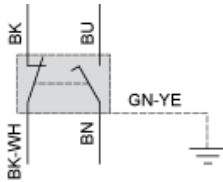


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Wiring Diagram

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2-pole N/C + N/O Break before Make, Slow Break



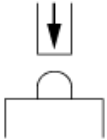
- (BK) Black
- (BK- Black White  
WH)
- (BU) Blue
- (BN) Brown
- (GN- Green Yellow  
YE)

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Characteristics of Actuation

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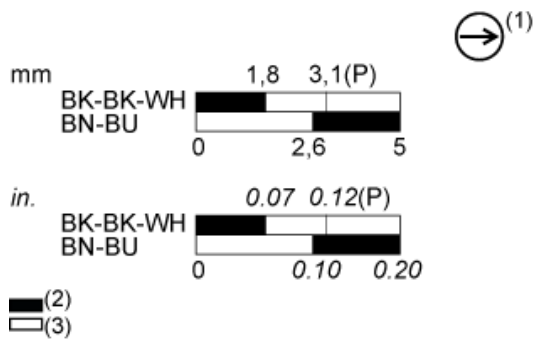
Switch Actuation on End



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Functional Diagram

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