# Product data sheet

Specifications



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

XCMD2110L1

**Product availability : Stock - Normally stocked in distribution facility**

**Price* : 43.90 USD**

## 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 |
| **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** | Removable cable connector |
| **Cable length** | 3.28 ft (1 m) |
| **Cable composition** | 5 x 0.75 mm² |
| **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 |

* Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: 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

| | |
|---|---|
| **Minimum actuation speed** | 0.01 m/min |
| **Maximum actuation speed** | 1.64 ft/s (0.5 m/s) |
| **Contact code designation** | B300, AC-15 (Ue = 240 V), Ie = 1.5 A EN/IEC 60947-5-1 appendix A<br>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<br>400 V 3)IEC 60947-5-1<br>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<br>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<br>5000000 cycles, DC-13, 24 V, 3 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C<br>5000000 cycles, DC-13, 48 V, 2 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C |
| **Mechanical durability** | 10000000 cycles |
| **Width** | 1.18 in (30 mm) |
| **Height** | 1.97 in (50 mm) |
| **Depth** | 0.63 in (16 mm) |
| **Net Weight** | 0.40 lb(US) (0.18 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** | IP66 conforming to IEC 60529<br>IP67 conforming to IEC 60529<br>IP68 conforming to IEC 60529 |
| **IK degree of protection** | IK06 EN 62262 |
| **Overvoltage category** | Class I IEC 61140<br>Class I 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<br>UL<br>CCC |
| **Standards** | UL 508<br>EN/IEC 60204-1<br>CSA C22.2 No 14<br>EN/IEC 60947-5-1 |

## Ordering and shipping details

| | |
|---|---|
| **Category** | 22413-LIMIT SWITCH, IEC, MINIATURE |
| **Discount Schedule** | T |
| **GTIN** | 3389110218367 |
| **Returnability** | Yes |
| **Country of origin** | ID |

## Packing Units

| | |
|---|---|
| **Unit Type of Package 1** | PCE |
| **Number of Units in Package 1** | 1 |

| | |
|---|---|
| **Package 1 Height** | 1.00 in (2.54 cm) |
| **Package 1 Width** | 7.00 in (17.78 cm) |
| **Package 1 Length** | 7.00 in (17.78 cm) |
| **Package 1 Weight** | 5.76 oz (163.29 g) |
| **Unit Type of Package 2** | S02 |
| **Number of Units in Package 2** | 30 |
| **Package 2 Height** | 5.91 in (15 cm) |
| **Package 2 Width** | 11.81 in (30 cm) |
| **Package 2 Length** | 15.75 in (40 cm) |
| **Package 2 Weight** | 12.02 lb(US) (5.451 kg) |
| **Package 3 Height** | 30.31 in (77.0 cm) |

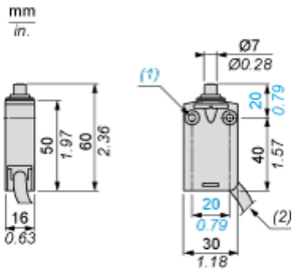
## Offer Sustainability

| | |
|---|---|
| **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)<br>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 |

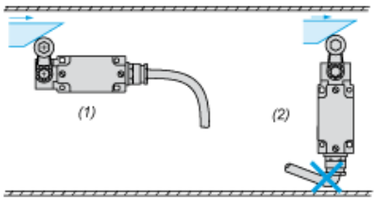
## Dimensions




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

## Mounting

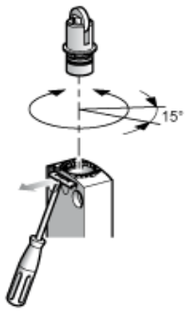
### Sweep of Connecting Cable




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

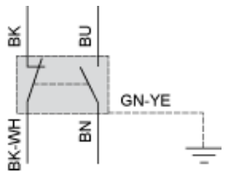
## Setting-up

### Plunger or Multi-directional Heads



## Wiring Diagram

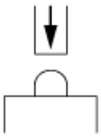
### 2-pole NC + NO Snap Action



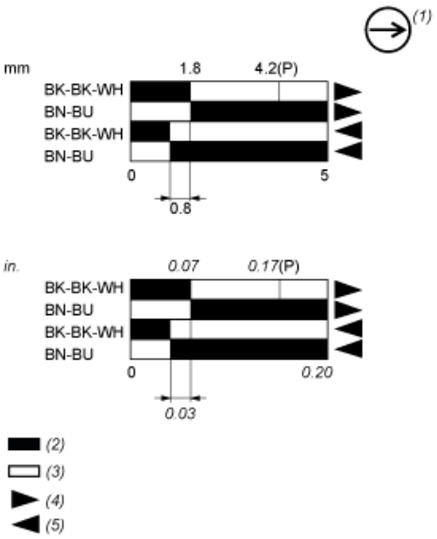

**(BK)** Black
**(BK-WH)** Black White
**(BU)** Blue
**(BN)** Brown
**(GN-YE)** Green Yellow

## Characteristics of Actuation

### Switch Actuation on End



## Functional Diagram




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