## Product data sheet Characteristics

## XCMD2116L1

Limit switch, Limit switches XC Standard, XCMD, steel roller lever, 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             | XCMD                                     |  |
| Sensor design                 | Miniature                                |  |
| Body type                     | Fixed                                    |  |
| Head type                     | Rotary head                              |  |
| Material                      | Metal                                    |  |
| Body material                 | Zamak                                    |  |
| Head material                 | Zamak                                    |  |
| Fixing mode                   | By the body                              |  |
| Movement of operating head    | Rotary                                   |  |
| Type of operator              | Spring return roller lever metal         |  |
| Type of approach              | Lateral approach, 2 directions           |  |
| Number of poles               | 2                                        |  |
| Contacts type and composition | 1 NC + 1 NO                              |  |
| Contact operation             | Snap action                              |  |
|                               |                                          |  |

#### Complementary

| Tracks                         | 24/31 mm                                                                                                                                                        |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Switch actuation               | By 30° cam                                                                                                                                                      |
| Electrical connection          | Removable cable connector                                                                                                                                       |
| Cable length                   | 1 M                                                                                                                                                             |
| Cable composition              | 5 x 0.75 mm²                                                                                                                                                    |
| Wire insulation material       | PvR                                                                                                                                                             |
| Contacts insulation form       | Zb                                                                                                                                                              |
| Positive opening               | With                                                                                                                                                            |
| Positive opening minimum force | 0.5 N                                                                                                                                                           |
| Minimum force for tripping     | 0.1 N                                                                                                                                                           |
| Maximum actuation speed        | 1.5 M/S                                                                                                                                                         |
| Contact code designation       | B300, AC-15 (Ue = 240 V), le = 1.5 A conforming to EN/IEC 60947-5-1 appendix A R300, DC-13 (Ue = 250 V), le = 0.1 A conforming to EN/IEC 60947-5-1 appendix A   |
| [Ui] rated insulation voltage  | 300 V (pollution degree 3) conforming to UL 508 400 V (pollution degree 3) conforming to IEC 60947-5-1 300 V (pollution degree 3) conforming to CSA C22.2 No 14 |

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 inherended as a substitute for and is not to be used for determining suitability or reliability of these products by specific base applications. It is the dourn arise 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.

| 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 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 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                             | 0.225 Kg                                                                                                                                                                                                                                                                                                                                                        |
|                                        |                                                                                                                                                                                                                                                                                                                                                                 |

#### Environment

| Shock resistance                      | 25 gn for 18 ms conforming to IEC 60068-2-27                                                 |
|---------------------------------------|----------------------------------------------------------------------------------------------|
| Vibration resistance                  | 5 gn (f= 10500 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 | -2570 °C                                                                                     |
| Ambient air temperature for storage   | -4070 °C                                                                                     |
| Protective treatment                  | TC                                                                                           |
| Product certifications                | UL<br>CCC<br>CSA                                                                             |
| Standards                             | UL 508<br>CSA C22.2 No 14<br>EN/IEC 60204-1<br>EN/IEC 60947-5-1                              |

## Packing Units

| Unit Type of Package 1       | PCE       |
|------------------------------|-----------|
| Number of Units in Package 1 | 1         |
| Package 1 Weight             | 201 G     |
| Package 1 Height             | 4.414 Cm  |
| Package 1 width              | 17.199 Cm |
| Package 1 Length             | 18.639 Cm |
| Unit Type of Package 2       | S03       |
| Number of Units in Package 2 | 45        |
| Package 2 Weight             | 10.551 Kg |
| Package 2 Height             | 30 Cm     |
| Package 2 width              | 30 Cm     |
| Package 2 Length             | 40 Cm     |
|                              |           |

## Offer Sustainability

| Sustainable offer status   | Green Premium product                                                            |
|----------------------------|----------------------------------------------------------------------------------|
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope) EVEL RoHS Declaration |
| Mercury free               | Yes                                                                              |
| RoHS exemption information | ₫Yes                                                                             |
| Environmental Disclosure   | Product Environmental Profile                                                    |
| Circularity Profile        | <sup>™</sup> End Of Life Information                                             |

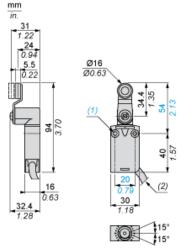


Warranty 18 months

# Product data sheet Dimensions Drawings

## XCMD2116L1

### **Dimensions**



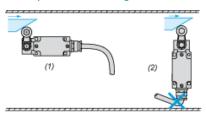
- (1) 2 fixing holes Ø 4.2 mm, counterbored Ø 8 mm by 4 mm deep.
- (2) External diameter of cable 7.5 mm.

# Product data sheet Mounting and Clearance

## **XCMD2116L1**

### Mounting

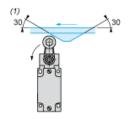
### Sweep of Connecting Cable



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

## Mounting with Rotary Heads and Levers

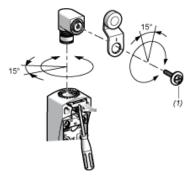
### Type of Cam





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

### Setting-up with Head ZCE01 and ZCE09



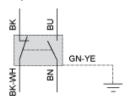
(1) Tightening torque (Min: 1) (Max: 1.5)

## Product data sheet Connections and Schema

## XCMD2116L1

## Wiring Diagram

## 2-pole NC + NO Snap Action



(BK) Black (BK-V<del>ØH)</del>ck White (BU) Blue

(BN) Brown (GN-YGreen Yellow

## Product data sheet **Technical Description**

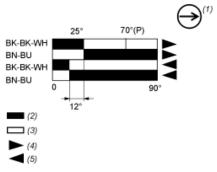
## XCMD2116L1

#### Characteristics of Actuation

### Switch Actuation by 30° Cam



#### **Functional Diagram**



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

Product Life Status: Commercialised