



## 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                     | 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             | 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 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                | 0.01 m/min                                                                                                                                                                                                                     |
| Maximum actuation speed                | 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 IEC 60529<br>IP68 IEC 60529     |
| IK degree of protection               | IK06 EN 62262                                                        |
| Overvoltage category                  | Class I conforming to IEC 61140<br>Class I conforming to 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>CCC<br>UL                                                     |
| Standards                             | EN/IEC 60947-5-1<br>CSA C22.2 No 14<br>UL 508<br>EN/IEC 60204-1      |

## Ordering and shipping details

|                       |                                      |
|-----------------------|--------------------------------------|
| Category              | 22413 - LIMIT SWITCH, IEC, MINIATURE |
| Discount Schedule     | T                                    |
| GTIN                  | 00785901979241                       |
| Nbr. of units in pkg. | 1                                    |
| Package weight(Lbs)   | 0.7 lb(US) (0.32 kg)                 |
| Returnability         | No                                   |
| Country of origin     | ID                                   |

## Packing Units

|                              |                         |
|------------------------------|-------------------------|
| Unit Type of Package 1       | PCE                     |
| Package 1 Height             | 0.79 in (2 cm)          |
| Package 1 width              | 7.09 in (18 cm)         |
| Package 1 Length             | 7.87 in (20 cm)         |
| Unit Type of Package 2       | S02                     |
| Number of Units in Package 2 | 30                      |
| Package 2 Weight             | 12.53 lb(US) (5.685 kg) |
| Package 2 Height             | 5.91 in (15 cm)         |
| Package 2 width              | 11.81 in (30 cm)        |
| Package 2 Length             | 15.75 in (40 cm)        |

## Offer Sustainability

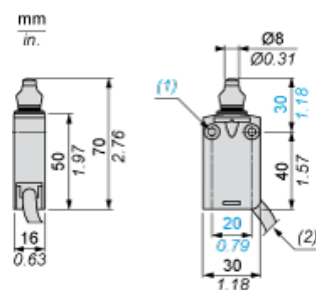
|                            |                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| 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

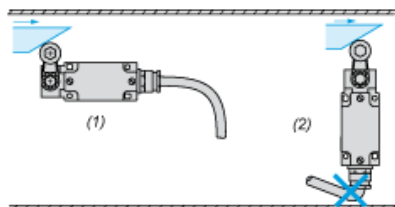


---

## Mounting

---

### Sweep of Connecting Cable



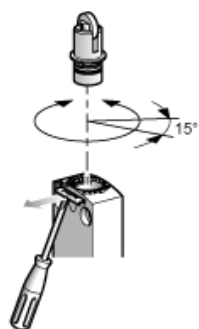
- (1) Recommended
- (2) To be avoided

---

## Setting-up

---

### Plunger or Multi-directional Heads

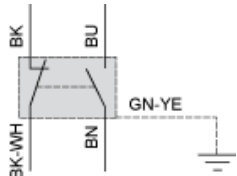


---

## Wiring Diagram

---

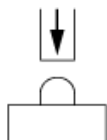
### 2-pole NC + NO Snap Action



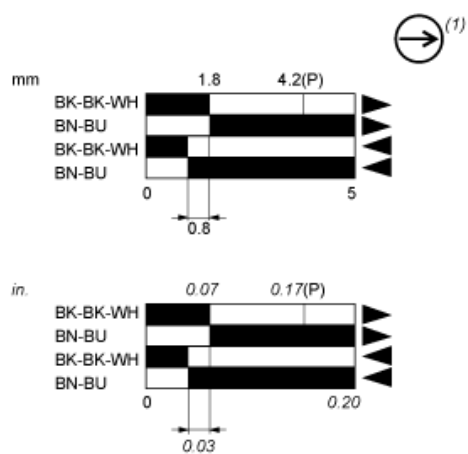
(BK) Black  
(BK- Black White  
WH)  
(BU) Blue  
(BN) Brown  
(GN- Green Yellow  
YE)

## Characteristics of Actuation

### Switch Actuation on End



## Functionnal Diagram



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

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Schneider Electric:](#)

[XCMD2111L1](#)