



## 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                     | 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 thermoplastic |
| 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                           | 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         | 0.5 N                                                                                                                                                                                                                          |
| Minimum force for tripping             | 0.1 N                                                                                                                                                                                                                          |
| Maximum actuation speed                | 4.92 ft/s (1.5 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                                                                                                                                                                                                                |
| Maximum Width                          | 1.18 in (30 mm)                                                                                                                                                                                                                |
| Height                                 | 1.97 in (50 mm)                                                                                                                                                                                                                |

|            |                       |
|------------|-----------------------|
| Depth      | 0.63 in (16 mm)       |
| Net Weight | 0.49 lb(US) (0.22 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 IEC 60529<br>IP67 IEC 60529<br>IP68 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                | CCC<br>UL<br>CSA                                                |
| Standards                             | CSA C22.2 No 14<br>EN/IEC 60947-5-1<br>UL 508<br>EN/IEC 60204-1 |

## Ordering and shipping details

|                       |                                      |
|-----------------------|--------------------------------------|
| Category              | 22413 - LIMIT SWITCH, IEC, MINIATURE |
| Discount Schedule     | T                                    |
| GTIN                  | 00785901537649                       |
| Nbr. of units in pkg. | 1                                    |
| Package weight(Lbs)   | 0.46 lb(US) (0.21 kg)                |
| Returnability         | Yes                                  |
| Country of origin     | ID                                   |

## Packing Units

|                  |          |
|------------------|----------|
| Package 1 Height | 0.350 dm |
| Package 1 width  | 1.400 dm |
| Package 1 Length | 1.300 dm |

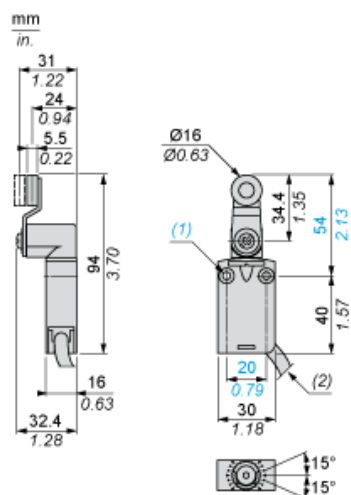
## Offer Sustainability

|                            |                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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>                                                                                                                                                                                                                                                                                    |
| Toxic heavy metal free     | Yes                                                                                                                                                                                                                                                                                                                                                                               |
| 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.

## Mounting

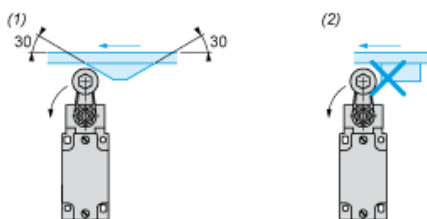
### Sweep of Connecting Cable



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

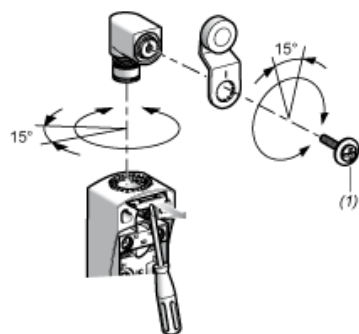
### Mounting with Rotary Heads and Levers

#### Type of Cam



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

### Setting-up with Head ZCE01 and ZCE09



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

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## Wiring Diagram

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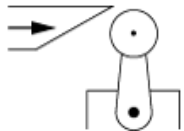
### 2-pole NC + NO Snap Action



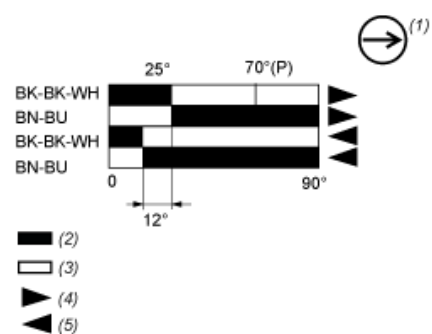
(BK) Black  
(BK- Black White  
WH)  
(BU) Blue  
(BN) Brown  
(GN- Green Yellow  
YE)

## Characteristics of Actuation

### Switch Actuation by 30° Cam



## 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