



## 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 without operating lever |
| Type of approach              | Lateral approach 2 directions         |
| Number of poles               | 2                                     |
| Contacts type and composition | 1 NC + 1 NO                           |
| Contact operation             | Snap action                           |

## Complementary

|  |  |
|--|--|
| 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         | 35 N   |
| Minimum force for tripping             | 7 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) 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 degree of pollution 3 conforming to CSA C22.2 No 14<br>300 V degree of pollution 3 conforming to UL 508<br>400 V degree of pollution 3 conforming to IEC 60947-5-1   |
| 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 by gG cartridge fuse   |
| 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                                  | 1.18 in (30 mm)  |

|                |                        |
|----------------|------------------------|
| Height         | 1.97 in (50 mm)        |
| Depth          | 0.63 in (16 mm)        |
| Product weight | 0.41 lb(US) (0.185 kg) |

## Environment

|                                       |  |
|---------------------------------------|--|
| Shock resistance                      | 25 gn (duration = 18 ms) conforming to IEC 60068-2-27  |
| Vibration resistance                  | 5 gn (f = 10...500 Hz) conforming to IEC 60068-2-6   |
| IP degree of protection               | IP68 conforming to IEC 60529<br>IP66 conforming to IEC 60529<br>IP67 conforming to IEC 60529 |
| IK degree of protection               | IK06 conforming to EN 62262  |
| Overvoltage category                  | Class I conforming to NF C 20-030<br>Class I conforming to IEC 61140                         |
| 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                | UL<br>CSA<br>CCC   |
| Standards                             | EN/IEC 60204-1<br>EN/IEC 60947-5-1<br>UL 508<br>CSA C22.2 No 14                              |

## Ordering and shipping details

|                       |                                      |
|-----------------------|--------------------------------------|
| Category              | 22413 - LIMIT SWITCH, IEC, MINIATURE |
| Discount Schedule     | T                                    |
| GTIN                  | 003389110299564                      |
| Nbr. of units in pkg. | 1                                    |
| Package weight(Lbs)   | 0.7000000000000007                   |
| Returnability         | N                                    |
| Country of origin     | ID                                   |

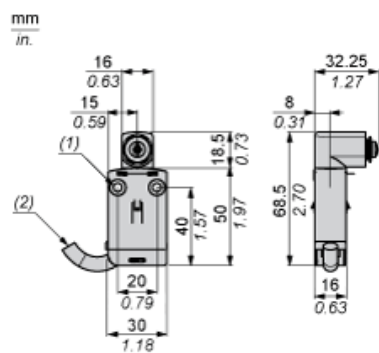
## Offer Sustainability

|                                  |  |
|----------------------------------|--|
| Sustainable offer status         | Green Premium product  |
| RoHS (date code: YYWW)           | Compliant - since 1002 - Schneider Electric declaration of conformity <a href="#">Schneider Electric declaration of conformity</a> |
| REACH                            | Reference not containing SVHC above the threshold  |
| Product environmental profile    | Available  |
| Product end of life instructions | Need no specific recycling operations  |
| California proposition 65        | WARNING: This product can expose you to chemicals including:   |
| - - - - - Substance 1            | Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and  |
| - - - - - Substance 2            | Diisodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm.          |
| - - - - - More information       | For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>                                      |

## Contractual warranty

|                 |           |
|-----------------|-----------|
| Warranty period | 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

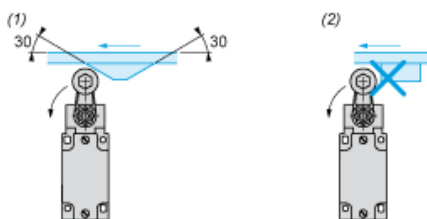
### Sweep of Connecting Cable



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

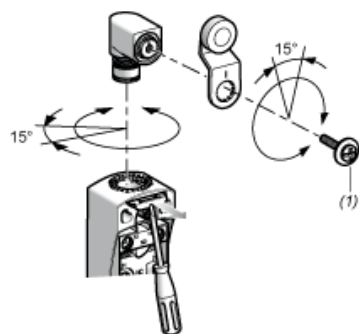
## Mounting with Rotary Heads and Levers

### Type of Cam



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

## Setting-up with Head ZCE01 and ZCE09



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

## Wiring Diagram

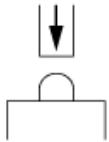
### 2-pole NC + NO Snap Action



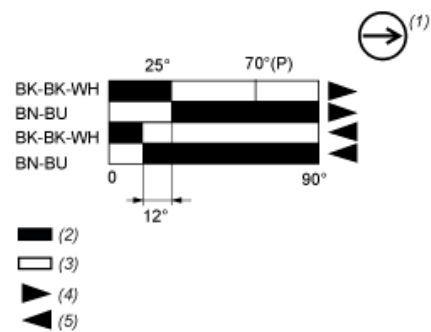
(BK) Black  
(BK- Black White  
WH)  
(BU) Blue  
(BN) Brown  
(GN- Green Yellow  
YE)

## 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

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