



## 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                     | M16 plunger head                                  |
| Material                      | Metal                                             |
| Body material                 | Zamak                                             |
| Head material                 | Zamak                                             |
| Fixing mode                   | By the head                                       |
| 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                           | 6.56 ft (2 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                | 1.64 ft/s (0.5 m/s)                                                                                                                                                                                                                                                                                                                                                            |
| Contact code designation               | B300, AC-15 (U <sub>e</sub> = 240 V, I <sub>e</sub> = 1.5 A) conforming to EN/IEC 60947-5-1 appendix A<br>R300, DC-13 (U <sub>e</sub> = 250 V, I <sub>e</sub> = 0.1 A) conforming to EN/IEC 60947-5-1 appendix A                                                                                                                                                               |
| [Ui] rated insulation voltage          | 300 V degree of pollution 3 conforming to UL 508<br>400 V degree of pollution 3 conforming to IEC 60947-5-1<br>300 V degree of pollution 3 conforming to CSA C22.2 No 14                                                                                                                                                                                                       |
| 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)                                                                                                                                                                                                                                                                                                                                                                |

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|                |                       |
|----------------|-----------------------|
| Product weight | 0.49 lb(US) (0.22 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                | CCC<br>CSA<br>UL                                                                             |
| standards                             | EN/IEC 60204-1<br>EN/IEC 60947-5-1<br>UL 508<br>CSA C22.2 No 14                              |

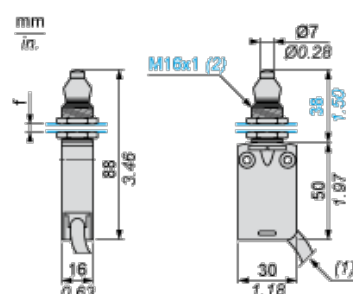
## Offer Sustainability

|                                                                                                                            |                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Green Premium product                                                                                                      | Green Premium product                                                                                                      |
| Compliant - since 1002 - Schneider Electric declaration of conformity                                                      | Compliant - since 1002 - Schneider Electric declaration of conformity                                                      |
| Reference not containing SVHC above the threshold                                                                          | Reference not containing SVHC above the threshold                                                                          |
| Available                                                                                                                  | Available                                                                                                                  |
| Need no specific recycling operations                                                                                      | Need no specific recycling operations                                                                                      |
| WARNING: This product can expose you to chemicals including:                                                               | WARNING: This product can expose you to chemicals including:                                                               |
| Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and                                | 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. | 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>                              | For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>                              |

## Contractual warranty

|                 |           |
|-----------------|-----------|
| Warranty period | 18 months |
|-----------------|-----------|

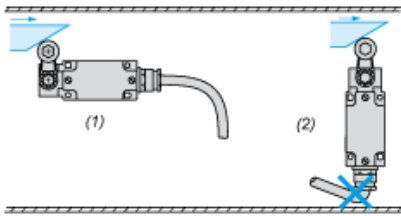
## Dimensions



- (1) External diameter of cable 7.5 mm.  
 (2) Fixing nut thickness 3.5 mm.  
 f : 8 mm max, panel cut-out Ø 16.5 mm.

## Mounting

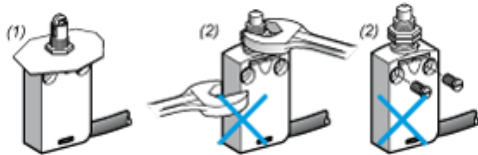
### Sweep of Connecting Cable



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

## Panel Mounting

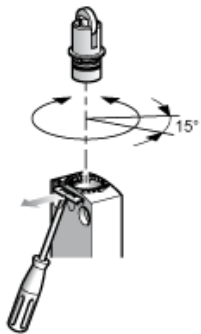
### Mounting and Fixing Limit Switches by the Head



- (1) Recommended
- (2) Forbidden

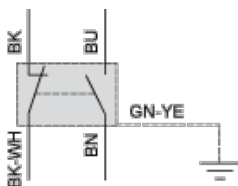
## Setting-up

### Plunger or Multi-directional Heads



## Wiring Diagram

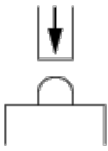
### 2-pole NC + NO Snap Action



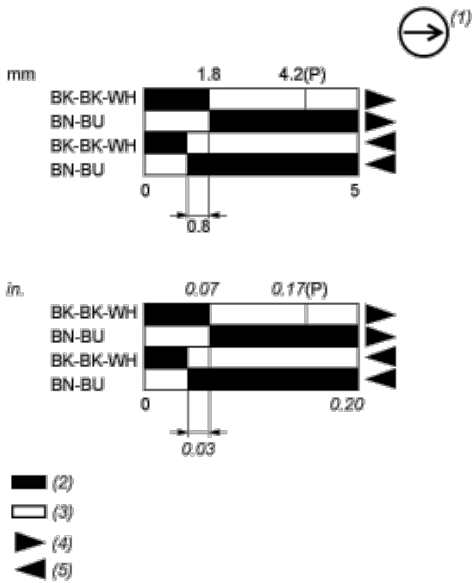
- (BK) Black
- (BK- Black White  
WH)
- (BU) Blue
- (BN) Brown
- (GN- Green Yellow  
YE)

## 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

## Данный компонент на территории Российской Федерации

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Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

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