



## 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                     | Plug-in body                  |
| Head type                     | M12 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   |
| Type of approach              | Vertical approach 1 direction |
| Number of poles               | 1                             |
| Contacts type and composition | 1 C/O                         |
| Contact operation             | Snap action                   |

## Complementary

|                                |   |
|--------------------------------|---|
| Switch actuation               | On end  |
| Electrical connection          | Male connector M12, 4 pins                                      |
| Contacts insulation form       | Za  |
| Positive opening               | Without   |
| Minimum force for tripping     | 8.5 N   |
| Minimum actuation speed        | 0.01 m/min  |
| Maximum actuation speed        | 0.5 m/s   |
| [Ie] rated operational current | 0.1 A at 250 V, DC-13 conforming to EN/IEC 60947-5-1 appendix A |

|  |  |
|--|--|
| [Ithe] conventional enclosed thermal current | 3 A  |
| [Ui] rated insulation voltage                | 250 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       | 2.5 kV conforming to IEC 60664<br>2.5 kV conforming to IEC 60947-1   |
| Short-circuit protection                     | 4 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  | 30 mm  |
| Height                                       | 50 mm  |
| Depth  | 16 mm  |
| Product weight                               | 0.1 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  |
| Electrical shock protection class     | Class I conforming to IEC 61140<br>Class I conforming to NF C 20-030                         |
| Ambient air temperature for operation | -25...70 °C  |
| Ambient air temperature for storage   | -40...70 °C  |
| Protective treatment                  | TC   |
| Product certifications                | CCC<br>UL<br>CSA   |
| Standards                             | EN/IEC 60947-5-1<br>EN/IEC 60204-1<br>CSA C22.2 No 14<br>UL 508                              |

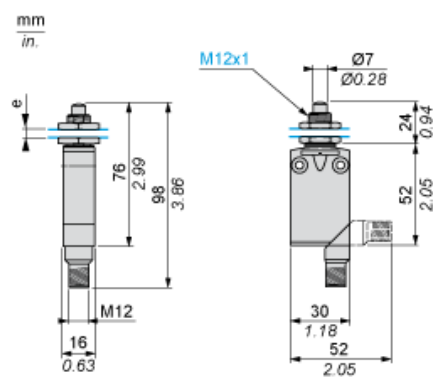
## Offer Sustainability

|                                  |   |
|----------------------------------|---|
| Sustainable offer status         | Green Premium product   |
| RoHS (date code: YYWW)           | Compliant - since 1002 - Schneider Electric declaration of conformity<br><a href="#">Schneider Electric declaration of conformity</a> |
| REACH                            | Reference not containing SVHC above the threshold<br><a href="#">Reference not containing SVHC above the threshold</a>                |
| Product environmental profile    | Available<br><a href="#">Product Environmental Profile</a>  |
| Product end of life instructions | Need no specific recycling operations<br><a href="#">End of Life Information</a>  |

## Contractual warranty

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

## Dimensions



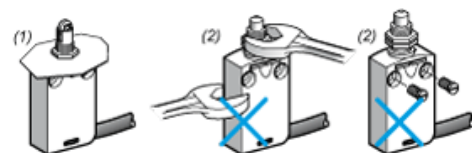
e : 8 mm max, panel cut-out Ø 12.5 mm, fixing nut thickness 3.5 mm.

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## Panel Mounting

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### Mounting and Fixing Limit Switches by the Head



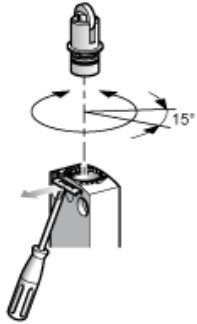
- (1) Recommended  
(2) Forbidden

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## Setting-up

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### Plunger or Multi-directional Heads

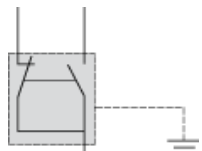


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## Wiring Diagram

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Single-pole CO Snap Action + Integral M12 4-pin Connector

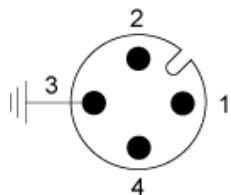


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Wiring Diagram

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4-pin, M12, 3A-250V



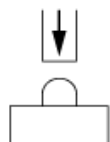
- 1 : Common
- 2 : NC
- 3 : Grounding
- 4 : NO

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Characteristics of Actuation

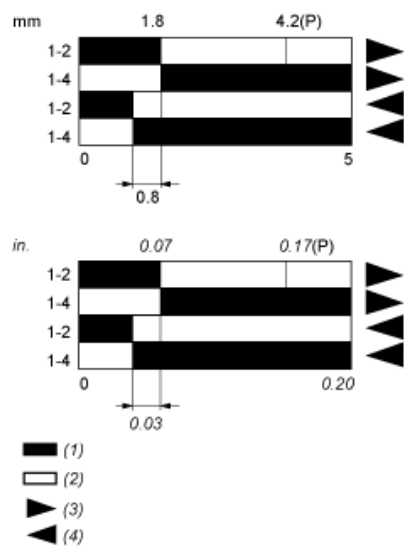
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Switch Actuation on End





## Functional Diagram



- (P) Positive opening point  
(1) Closed  
(2) Open  
(4) Tripping  
(5) Resetting