



### 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                     | 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 roller plunger metal |
| Type of approach              | Lateral approach 2 directions      |
| Number of poles               | 1                                  |
| Contacts type and composition | 1 C/O                              |
| Contacts operation            | Snap action                        |

### Complementary

|                                              |                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Switch actuation                             | By 30° cam                                                                                                                                                                                                                                                                                                                                                                     |
| Electrical connection                        | Male connector M12, 4 pins                                                                                                                                                                                                                                                                                                                                                     |
| Contacts insulation form                     | Za                                                                                                                                                                                                                                                                                                                                                                             |
| Positive opening                             | Without                                                                                                                                                                                                                                                                                                                                                                        |
| Minimum force for tripping                   | 7 N                                                                                                                                                                                                                                                                                                                                                                            |
| Maximum actuation speed                      | 0.5 m/s                                                                                                                                                                                                                                                                                                                                                                        |
| [Ie] rated operational current               | 1.5 A at 240 V, AC-15 conforming to EN/IEC 60947-5-1 appendix A<br>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, 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<br>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 |
| Mechanical durability                        | 10000000 cycles                                                                                                                                                                                                                                                                                                                                                                |
| Width                                        | 30 mm                                                                                                                                                                                                                                                                                                                                                                          |
| Height                                       | 50 mm                                                                                                                                                                                                                                                                                                                                                                          |
| Depth                                        | 16 mm                                                                                                                                                                                                                                                                                                                                                                          |
| Product weight                               | 0.09 kg                                                                                                                                                                                                                                                                                                                                                                        |

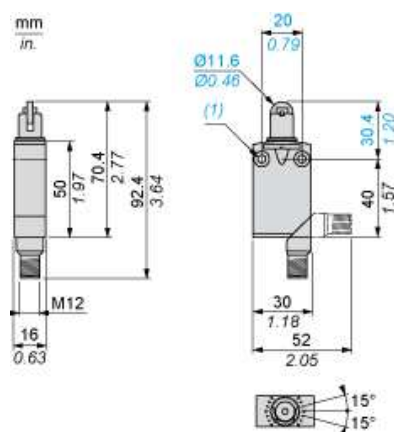
## Environment

|                                            |                                                                                              |
|--------------------------------------------|----------------------------------------------------------------------------------------------|
| 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                    | IP66 conforming to IEC 60529<br>IP67 conforming to IEC 60529<br>IP68 conforming to IEC 60529 |
| IK degree of protection                    | IK06 conforming to EN 50102                                                                  |
| Class of protection against electric shock | 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>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

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

## Dimensions



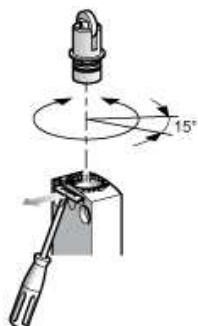
(1) 2 fixing holes  $\varnothing 4.2$  mm, counterbored  $\varnothing 8$  mm by 4 mm deep.

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## Setting-up

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### Plunger or Multi-directional Heads

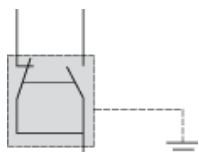


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## Wiring Diagram

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

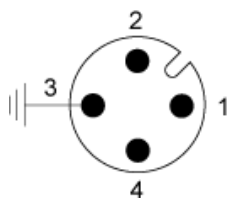


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## Wiring Diagram

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4-pin, M12, 3A-250V



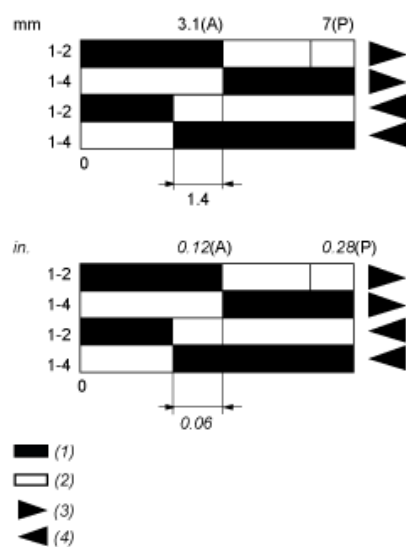
- 1 : Common
- 2 : NC
- 3 : Grounding
- 4 : NO

## Characteristics of Actuation

### Switch Actuation by 30° Cam



## Functionnal Diagram



- (P) Positive opening point  
(A) Cam displacement  
(1) Closed  
(2) Open  
(3) Tripping  
(4) Resetting