



## 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 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

|                                |                            |
|--------------------------------|----------------------------|
| Switch actuation               | By 30° cam                 |
| Electrical connection          | Male connector M12, 4 pins |
| Contacts insulation form       | Zb                         |
| Positive opening               | With                       |
| Positive opening minimum force | 35 N                       |
| Minimum force for tripping     | 7 N                        |
| Maximum actuation speed        | 0.5 m/s                    |

|  |  |
|--|--|
| [Ie] rated operational current               | 1 A at 24 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 (pollution degree 3) conforming to IEC 60947-5-1   |
| Maximum resistance across terminals          | 25 mOhm conforming to IEC 60255-7 category 3   |
| [Uimp] rated impulse withstand voltage       | IEC 60664 2.5 kV<br>IEC 60947-1 2.5 kV   |
| Short-circuit protection                     | 4 A cartridge fuse, type gG  |
| 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 |
| Mechanical durability                        | 10000000 cycles  |
| Width  | 30 mm  |
| Height                                       | 50 mm  |
| Depth  | 16 mm  |
| Net weight                                   | 0.09 kg  |

## Environment

|                                       |  |
|---------------------------------------|--|
| Shock resistance                      | 25 gn for 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>IP69 conforming to IEC 60529             |
| IK degree of protection               | IK04 conforming to EN 62262  |
| Electrical shock protection class     | Class III conforming to IEC 61140<br>Class III 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                | UL<br>CCC<br>CSA   |
| Standards                             | UL 508<br>CSA C22.2 No 14<br>EN/IEC 60947-5-1<br>EN/IEC 60204-1          |

## Packing Units

|                  |          |
|------------------|----------|
| Package 1 Weight | 0.090 kg |
| Package 1 Height | 0.170 dm |
| Package 1 width  | 0.710 dm |
| Package 1 Length | 0.530 dm |

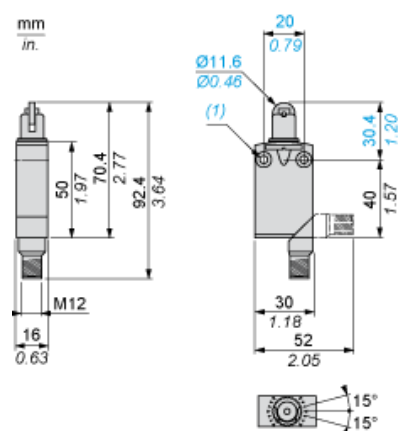
## Offer Sustainability

|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product   |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope)<br><a href="#">EU RoHS Declaration</a> |
| 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



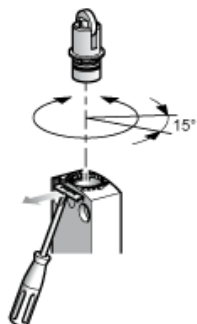
(1) 2 fixing holes  $\varnothing 4.2$  mm, counterbored  $\varnothing 8$  mm by 4 mm deep.

---

## Setting-up

---

### Plunger or Multi-directional Heads

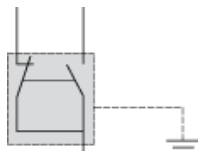


---

## Wiring Diagram

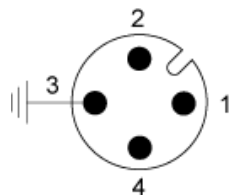
---

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



## Wiring Diagram

4-pin, M12, 3A-250V



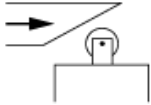
- 1 : Common
- 2 : NC
- 3 : Grounding
- 4 : NO

---

## Characteristics of Actuation

---

### Switch Actuation by 30° Cam



Functional Diagram

