



### 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                     | Multi-directional head      |
| Material                      | Metal                       |
| Head material                 | Zamak                       |
| Fixing mode                   | By the body                 |
| Movement of operating head    | Multi-directional           |
| Type of operator              | Spring return cat's whisker |
| Type of approach              | Multi-directional approach  |
| Electrical connection         | M12 male connector , 4 pins |
| Number of poles               | 2                           |
| Contacts type and composition | 1 C/O                       |
| Contacts operation            | Snap action                 |
| Positive opening              | Without                     |

### Complementary

|                                        |                                                                                                                                                                                                                                                                       |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Body material                          | Zamak                                                                                                                                                                                                                                                                 |
| Switch actuation                       | By any moving part                                                                                                                                                                                                                                                    |
| Contacts insulation form               | Za                                                                                                                                                                                                                                                                    |
| Minimum force for tripping             | 0.1 N                                                                                                                                                                                                                                                                 |
| Maximum actuation speed                | 1 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 UL 508<br>300 V degree of pollution 3 conforming to CSA C22-2 No 14<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 , 24 V , 3 W , load factor: 0.5 , operating rate: ≤ 60 cyc/mn<br>5000000 cycles , DC-13 , 48 V , 2 W , load factor: 0.5 , operating rate: ≤ 60 cyc/mn<br>5000000 cycles , DC-13 , 120 V , 1 W , load factor: 0.5 , operating rate: ≤ 60 cyc/mn |
| Mechanical durability                  | 5000000 cycles                                                                                                                                                                                                                                                        |
| Width                                  | 30 mm                                                                                                                                                                                                                                                                 |
| Height                                 | 50 mm                                                                                                                                                                                                                                                                 |
| Depth                                  | 16 mm                                                                                                                                                                                                                                                                 |
| Product weight                         | 0.085 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 NF C 20-030<br>Class I conforming to IEC 61140                         |
| 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                                  | CSA C22-2 No 14<br>EN/IEC 60204-1<br>EN/IEC 60947-5-1<br>UL 508                              |
| RoHS EUR conformity date                   | 4Q2009                                                                                       |
| RoHS EUR status                            | Will be compliant                                                                            |