



## Main

|                               |                                                      |
|-------------------------------|------------------------------------------------------|
| Range of product              | OsiSense XC                                          |
| Series name                   | Standard format                                      |
| Product or component type     | Limit switch                                         |
| Device short name             | XCKP                                                 |
| Sensor design                 | Compact                                              |
| Body type                     | Fixed                                                |
| Head type                     | Plunger head                                         |
| Material                      | Plastic                                              |
| Body material                 | Plastic                                              |
| Head material                 | Zamak                                                |
| Fixing mode                   | By the body                                          |
| Movement of operating head    | Linear                                               |
| Type of operator              | Spring return roller plunger metal with nitrile boot |
| Type of approach              | Vertical approach, 1 direction                       |
| Number of poles               | 2                                                    |
| Contacts type and composition | 1 NC + 1 NO                                          |
| Contact operation             | Slow-break, break before make                        |

## Complementary

|                                        |                                                                                                                                                                                                                                 |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Switch actuation                       | On end                                                                                                                                                                                                                          |
| Electrical connection                  | Screw-clamp terminals 1 x 0.5...2 x 2.5 mm <sup>2</sup>                                                                                                                                                                         |
| Cable entry                            | 1 entry tapped for M16 x 1.5 cable gland 0.16...0.31 in (4...8 mm)                                                                                                                                                              |
| Contacts insulation form               | Zb                                                                                                                                                                                                                              |
| Positive opening                       | With                                                                                                                                                                                                                            |
| Positive opening minimum force         | 45 N                                                                                                                                                                                                                            |
| Minimum force for tripping             | 15 N                                                                                                                                                                                                                            |
| Minimum actuation speed                | 6 m/min                                                                                                                                                                                                                         |
| Maximum actuation speed                | 0.5 m/s                                                                                                                                                                                                                         |
| Repeat accuracy                        | 0.1 mm on the tripping points with 1 million operating cycles                                                                                                                                                                   |
| Contact code designation               | A300, AC-15 (Ue = 240 V), Ie = 3 A 10 A EN/IEC 60947-5-1 appendix A<br>Q300, DC-13 (Ue = 250 V), Ie = 0.27 A EN/IEC 60947-5-1 appendix A                                                                                        |
| [Ui] rated insulation voltage          | 300 VUL 508<br>500 V 3) IEC 60947-1<br>300 VCSA C22.2 No 14                                                                                                                                                                     |
| Maximum resistance across terminals    | 25 MOhm IEC 60255-7 category 3                                                                                                                                                                                                  |
| [Uimp] rated impulse withstand voltage | 6 kV IEC 60664<br>6 kV IEC 60947-1                                                                                                                                                                                              |
| Short-circuit protection               | 10 A cartridge fuse gG                                                                                                                                                                                                          |
| Electrical durability                  | 5000000 Cycles, DC-13, 120 V, 4 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C<br>5000000 Cycles, DC-13, 24 V, 10 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C<br>5000000 cycles, DC-13, 48 V, 7 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C |
| Mechanical durability                  | 15000000 cycles                                                                                                                                                                                                                 |
| Maximum Width                          | 1.22 in (31 mm)                                                                                                                                                                                                                 |
| Height                                 | 2.56 in (65 mm)                                                                                                                                                                                                                 |
| Depth                                  | 1.18 in (30 mm)                                                                                                                                                                                                                 |

|                               |                        |
|-------------------------------|------------------------|
| Net Weight                    | 0.20 lb(US) (0.09 kg)  |
| Terminals description ISO n°1 | (13-14)NO<br>(21-22)NC |

## Environment

|                                       |                                                                                         |
|---------------------------------------|-----------------------------------------------------------------------------------------|
| Shock resistance                      | 50 gn 11 ms IEC 60068-2-27                                                              |
| Vibration resistance                  | 25 gn 10...500 Hz)IEC 60068-2-6                                                         |
| IP degree of protection               | IP66 conforming to IEC 60529<br>IP67 IEC 60529                                          |
| IK degree of protection               | IK04 EN 50102                                                                           |
| Electrical shock protection class     | Class II IEC 61140<br>Class II NF C 20-030                                              |
| 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                | CSA<br>CCC<br>UL                                                                        |
| Standards                             | CSA C22.2 No 14<br>EN 60204-1<br>IEC 60204-1<br>IEC 60947-5-1<br>EN 60947-5-1<br>UL 508 |

## Ordering and shipping details

|                       |                                    |
|-----------------------|------------------------------------|
| Category              | 22418 - LIMIT SWITCH,IEC,XCKP&XCKT |
| Discount Schedule     | T                                  |
| GTIN                  | 03389110204223                     |
| Nbr. of units in pkg. | 1                                  |
| Package weight(Lbs)   | 0.7 lb(US) (0.32 kg)               |
| Returnability         | No                                 |
| Country of origin     | ID                                 |

## Packing Units

|                              |                         |
|------------------------------|-------------------------|
| Unit Type of Package 1       | PCE                     |
| Package 1 Height             | 1.30 in (3.3 cm)        |
| Package 1 width              | 1.54 in (3.9 cm)        |
| Package 1 Length             | 3.94 in (10 cm)         |
| Unit Type of Package 2       | S02                     |
| Number of Units in Package 2 | 60                      |
| Package 2 Weight             | 11.34 lb(US) (5.145 kg) |
| Package 2 Height             | 5.91 in (15 cm)         |
| Package 2 width              | 11.81 in (30 cm)        |
| Package 2 Length             | 15.75 in (40 cm)        |

## Offer Sustainability

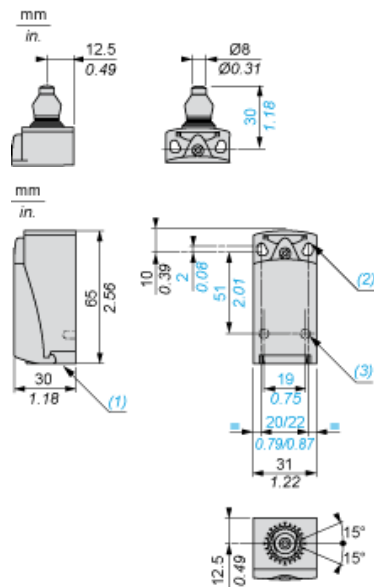
|                            |                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                                                                                                                                                                                                                                                                             |
| California proposition 65  | WARNING: This product can expose you to chemicals including: 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. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| REACH Regulation           |  <a href="#">REACH Declaration</a>                                                                                                                                                                                                                                                             |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope)  <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) Tapped entry for M16 x 1.5
- (2) 2 elongated holes  $\varnothing 4.3 \times 6.3$  mm on 22 mm centres, 2 holes  $\varnothing 4.3$  on 20 mm centres.
- (3) 2 x  $\varnothing 3$  holes for support studs, depth 4 mm.

---

## Mounting with Cable Entry

---

### Position of Cable Gland



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

---

## Setting-up

---

### Plunger or Multi-directional Heads



Wiring Diagram

2-pole NC + NO Break before Make, Slow Break

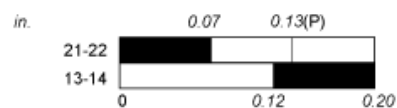
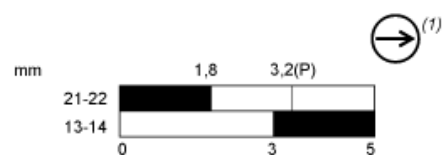


## Characteristics of Actuation

### Switch Actuation on End



## Functionnal Diagram



■ (2)  
□ (3)

- (P) Positive opening point
- (1) NC contact with positive opening operation
- (2) Closed
- (3) Open