



### Main

|                               |                                                  |
|-------------------------------|--------------------------------------------------|
| Range of product              | OsiSense XC                                      |
| Series name                   | Standard format                                  |
| Product or component type     | Limit switch                                     |
| Device short name             | XCKD                                             |
| Sensor design                 | Compact                                          |
| Body type                     | Fixed                                            |
| 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 plunger thermoplastic |
| Type of approach              | Vertical approach 1 direction                    |
| Number of poles               | 2                                                |
| Contacts type and composition | 1 NC + 1 NO                                      |
| Contact operation             | Snap action                                      |

### Complementary

|                                        |                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Switch actuation                       | By 30° cam                                                                                                                                                                                                                                                                                                                                                                      |
| Electrical connection                  | Screw-clamp terminals, clamping capacity: 1 x 0.34...2 x 1.5 mm <sup>2</sup>                                                                                                                                                                                                                                                                                                    |
| Cable entry                            | 1 entry tapped for Pg 11 cable gland                                                                                                                                                                                                                                                                                                                                            |
| Contacts insulation form               | Zb                                                                                                                                                                                                                                                                                                                                                                              |
| Positive opening                       | With                                                                                                                                                                                                                                                                                                                                                                            |
| Positive opening minimum force         | 18 N                                                                                                                                                                                                                                                                                                                                                                            |
| Minimum force for tripping             | 6 N                                                                                                                                                                                                                                                                                                                                                                             |
| Maximum actuation speed                | 3.28 ft/s (1 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) , Ithe = 10 A conforming to EN 60947-5-1<br>A300, AC-15 (Ue = 240 V, Ie = 3 A) , Ithe = 10 A conforming to IEC 60947-5-1 appendix A<br>Q300, DC-13 (Ue = 250 V, Ie = 0.27 A) conforming to EN 60947-5-1<br>Q300, DC-13 (Ue = 250 V, Ie = 0.27 A) conforming to IEC 60947-5-1 appendix A                                                      |
| [Ui] rated insulation voltage          | 500 V degree of pollution 3 conforming to IEC 60947-1<br>300 V conforming to UL 508<br>300 V conforming to CSA C22.2 No 14                                                                                                                                                                                                                                                      |
| Resistance across terminals            | <= 25 MOhm conforming to IEC 60255-7 category 3                                                                                                                                                                                                                                                                                                                                 |
| [Uimp] rated impulse withstand voltage | 6 kV conforming to IEC 60664<br>6 kV conforming to IEC 60947-1                                                                                                                                                                                                                                                                                                                  |
| Short-circuit protection               | 10 A cartridge fuse gG                                                                                                                                                                                                                                                                                                                                                          |
| Electrical durability                  | 5000000 cycles, DC-13, 120 V, 4 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, 10 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, 7 W, operating rate: <= 60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C |
| Mechanical durability                  | 15000000 cycles                                                                                                                                                                                                                                                                                                                                                                 |
| Width                                  | 1.22 in (31 mm)                                                                                                                                                                                                                                                                                                                                                                 |
| Height                                 | 2.56 in (65 mm)                                                                                                                                                                                                                                                                                                                                                                 |
| Depth                                  | 1.18 in (30 mm)                                                                                                                                                                                                                                                                                                                                                                 |

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|                               |                        |
|-------------------------------|------------------------|
| Product weight                | 0.42 lb(US) (0.19 kg)  |
| Terminals description ISO n°1 | (13-14)NO<br>(21-22)NC |

## Environment

|                                       |                                                                                         |
|---------------------------------------|-----------------------------------------------------------------------------------------|
| shock resistance                      | 50 gn (duration = 11 ms) conforming to IEC 60068-2-27                                   |
| vibration resistance                  | 25 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                            |
| IK degree of protection               | IK06 conforming to EN 50102                                                             |
| electrical shock protection class     | Class I conforming to IEC 61140<br>Class I conforming to 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                | CCC<br>CSA<br>UL                                                                        |
| standards                             | EN 60204-1<br>EN 60947-5-1<br>IEC 60204-1<br>IEC 60947-5-1<br>UL 508<br>CSA C22.2 No 14 |

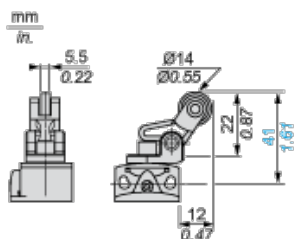
## Offer Sustainability

|                                                                                                                            |                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Green Premium product                                                                                                      | Green Premium product                                                                                                      |
| Compliant - since 1103 - Schneider Electric declaration of conformity                                                      | Compliant - since 1103 - Schneider Electric declaration of conformity                                                      |
| Reference not containing SVHC above the threshold                                                                          | Reference not containing SVHC above the threshold                                                                          |
| Need no specific recycling operations                                                                                      | Need no specific recycling operations                                                                                      |
| WARNING: This product can expose you to chemicals including:                                                               | WARNING: This product can expose you to chemicals including:                                                               |
| Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and                                | 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. | 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>                              | For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>                              |

## Contractual warranty

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

## Dimensions





- (1) Tapped entry for Pg 11 cable gland
- (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

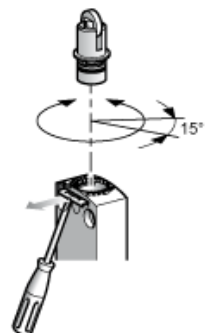
### Position of Cable Gland



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

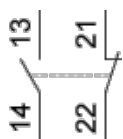
## Setting-up

### Plunger or Multi-directional Heads



## Wiring Diagram

### 2-pole NC + NO Snap Action

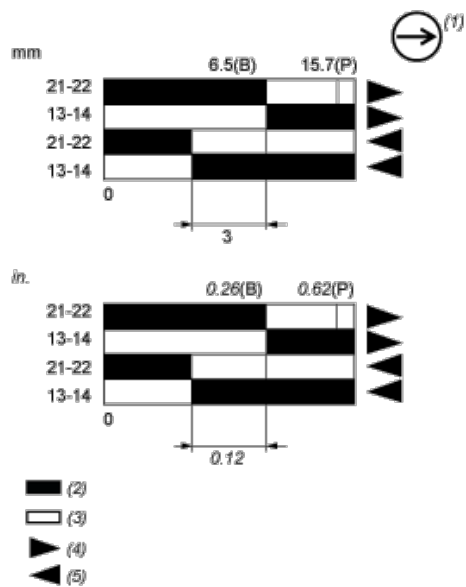


## Characteristics of Actuation

### Switch Actuation by 30° Cam



## Functionnal Diagram



- (P) Positive opening point
- (B) Cam displacement
- (1) NC contact with positive opening operation
- (2) Closed
- (3) Open
- (4) Tripping
- (5) Resetting



**Стандарт  
Электрон  
Связь**

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