



## Main

|                               |                                      |
|-------------------------------|--------------------------------------|
| Range of product              | OsiSense XC                          |
| Series name                   | Standard format                      |
| Product or component type     | Limit switch                         |
| Device short name             | XCKN                                 |
| Sensor design                 | Compact form B                       |
| Body type                     | Fixed                                |
| Head type                     | Plunger head                         |
| Material                      | Plastic                              |
| Body material                 | Plastic                              |
| Head material                 | Plastic                              |
| Fixing mode                   | By the body                          |
| Movement of operating head    | Linear                               |
| Type of operator              | Spring return plunger metal          |
| Type of approach              | Vertical approach 1 direction        |
| Cable entry                   | 1 entry tapped for Pg 11 cable gland |
| Number of poles               | 2                                    |
| Contacts type and composition | 1 NC + 1 NO                          |
| Contacts operation            | Snap action                          |
| Sale per indivisible quantity | 40                                   |

## Complementary

|                                        |                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Switch actuation                       | On end                                                                                                                                                                                                                                                                                                                                                                          |
| Electrical connection                  | Screw-clamp terminals, clamping capacity: 1 x 0.34...2 x 1.5 mm <sup>2</sup>                                                                                                                                                                                                                                                                                                    |
| Contacts insulation form               | Zb                                                                                                                                                                                                                                                                                                                                                                              |
| Positive opening                       | With                                                                                                                                                                                                                                                                                                                                                                            |
| Positive opening minimum force         | 30 N                                                                                                                                                                                                                                                                                                                                                                            |
| Minimum force for tripping             | 15 N                                                                                                                                                                                                                                                                                                                                                                            |
| Minimum actuation speed                | 0.01 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) , Ithe = 10 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 conforming to UL 508<br>500 V degree of pollution 3 conforming to IEC 60947-1<br>300 V conforming to CSA C22.2 No 14                                                                                                                                                                                                                                                      |
| [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 type 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         | 10000000 cycles        |
| Width                         | 30 mm                  |
| Height                        | 75 mm                  |
| Depth                         | 30 mm                  |
| Product weight                | 0.135 kg               |
| Terminals description ISO n°1 | (13-14)NO<br>(21-22)NC |

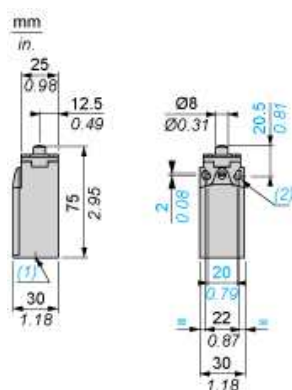
## Environment

|                                       |                                                                                         |
|---------------------------------------|-----------------------------------------------------------------------------------------|
| 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               | IP65 conforming to IEC 60529                                                            |
| IK degree of protection               | IK04 conforming to EN 50102                                                             |
| Overvoltage category                  | Class II conforming to IEC 61140<br>Class II 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 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

|                                  |                                                                                       |
|----------------------------------|---------------------------------------------------------------------------------------|
| Sustainable offer status         | Green Premium product                                                                 |
| RoHS (date code: YYWW)           | Compliant - since 0953 - <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



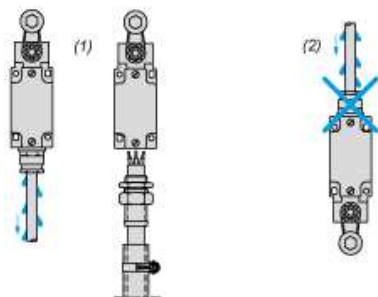
- (1) 1 tapped entry for Pg 11 cable gland  
(2) Ø: 2 elongated holes Ø 4.3 x 6.3 on 22 mm centres, 2 holes Ø 4.3 on 20 mm centres.

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## Mounting with Cable Entry

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### Position of Cable Gland



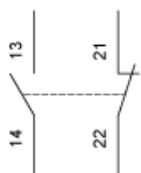
- (1) Recommended
- (2) To be avoided

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Wiring Diagram

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2-pole NC + NO Snap Action

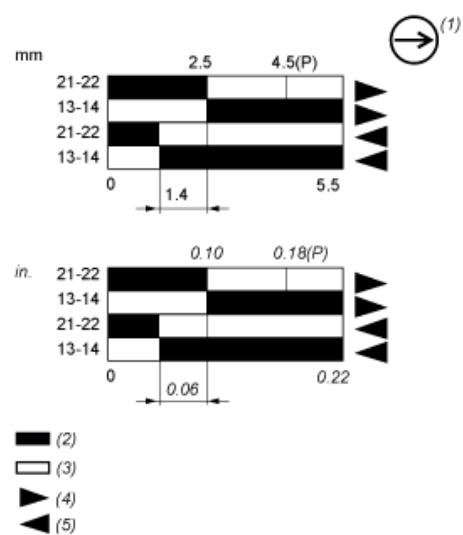


## Characteristics of Actuation

### Switch Actuation on End



## Functionnal Diagram



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