



## Main

|                               |                                          |
|-------------------------------|------------------------------------------|
| Range of product              | OsiSense XC                              |
| Series name                   | Standard format                          |
| Product or component type     | Limit switch                             |
| Device short name             | XCKN                                     |
| Sensor design                 | Compact form A                           |
| Body type                     | Fixed                                    |
| Head type                     | Rotary head                              |
| Material                      | Plastic                                  |
| Body material                 | Plastic                                  |
| Head material                 | Plastic                                  |
| Fixing mode                   | By the body                              |
| Movement of operating head    | Rotary                                   |
| Type of operator              | Spring return roller lever thermoplastic |
| Type of approach              | Lateral approach 2 directions            |
| Cable entry                   | 1 entry tapped for Pg 11 cable gland     |
| Number of poles               | 2                                        |
| Contacts type and composition | 1 NC + 1 NO                              |
| Contact operation             | Slow-break, break before make            |

## Complementary

|                                        |                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Tracks                                 | 24/40 mm                                                                                                                                                                                                                                                                                                                                                                              |
| Switch actuation                       | By 30° cam                                                                                                                                                                                                                                                                                                                                                                            |
| Electrical connection                  | Screw-clamp terminals, clamping capacity: 1 x 0.5...2 x 2.5 mm²                                                                                                                                                                                                                                                                                                                       |
| Contacts insulation form               | Zb                                                                                                                                                                                                                                                                                                                                                                                    |
| Positive opening                       | With                                                                                                                                                                                                                                                                                                                                                                                  |
| Positive opening minimum torque        | 1.33 lbf.in (0.15 N.m)                                                                                                                                                                                                                                                                                                                                                                |
| Minimum torque for tripping            | 0.88 lbf.in (0.1 N.m)                                                                                                                                                                                                                                                                                                                                                                 |
| Maximum actuation speed                | 4.92 ft/s (1.5 m/s)                                                                                                                                                                                                                                                                                                                                                                   |
| Contact code designation               | R300, DC-13 (Ue = 250 V, Ie = 0.1 A) conforming to EN/IEC 60947-5-1 appendix A<br>A300, AC-15 (Ue = 240 V, Ie = 3 A), Ithe = 10 A conforming to EN/IEC 60947-5-1<br>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                                                                                                                                                                                                                                                            |
| [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<br>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<br>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<br>conforming to IEC 60947-5-1 appendix C |
| Mechanical durability                  | 10000000 cycles                                                                                                                                                                                                                                                                                                                                                                       |
| Width                                  | 1.18 in (30 mm)                                                                                                                                                                                                                                                                                                                                                                       |
| Height                                 | 4.25 in (108 mm)                                                                                                                                                                                                                                                                                                                                                                      |
| Depth                                  | 1.75 in (44.5 mm)                                                                                                                                                                                                                                                                                                                                                                     |
| Product weight                         | 0.39 lb(US) (0.175 kg)                                                                                                                                                                                                                                                                                                                                                                |
| Terminals description ISO n°1          | (13-14)NO<br>(21-22)NC                                                                                                                                                                                                                                                                                                                                                                |

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## 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 | -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 |

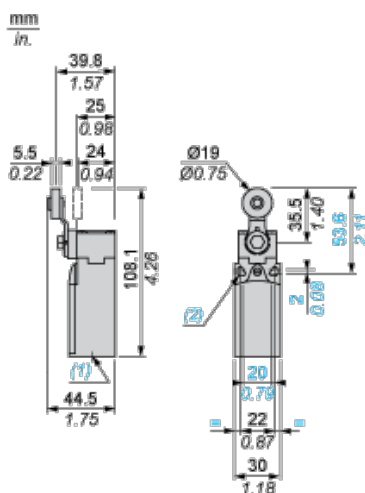
## Offer Sustainability

|                                                                                                                            |                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Green Premium product                                                                                                      | Green Premium product                                                                                                      |
| Compliant - since 0953 - Schneider Electric declaration of conformity                                                      | Compliant - since 0953 - Schneider Electric declaration of conformity                                                      |
| Reference not containing SVHC above the threshold                                                                          | Reference not containing SVHC above the threshold                                                                          |
| Available                                                                                                                  | Available                                                                                                                  |
| 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 |
|-----------------|-----------|

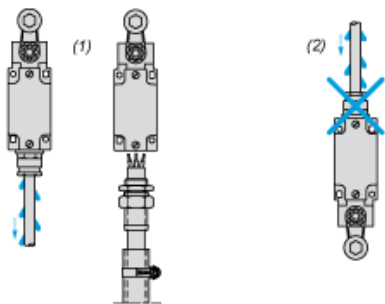
## Dimensions



- (1) 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.

Mounting with Cable Entry

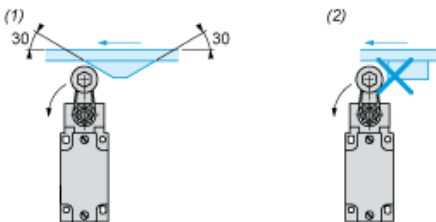
Position of Cable Gland



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

Mounting with Rotary Heads and Levers

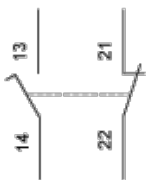
Type of Cam



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

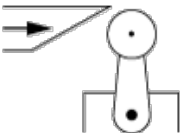
Wiring Diagram

2-pole N/C + N/O Break before Make, Slow Break

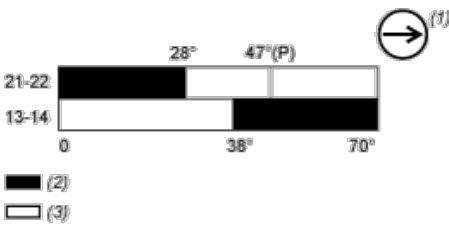


Characteristics of Actuation

Switch Actuation by 30° Cam



Functionnal Diagram



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



**Стандарт  
Электрон  
Связь**

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