



## Main

|                               |                                                  |
|-------------------------------|--------------------------------------------------|
| Range of product              | OsiSense XC                                      |
| Series name                   | Standard format                                  |
| Product or component type     | Limit switch                                     |
| Device short name             | XCKM                                             |
| Body type                     | Fixed                                            |
| Head type                     | Plunger head                                     |
| Material                      | Metal                                            |
| Body material                 | Zamak                                            |
| Fixing mode                   | By the body                                      |
| Movement of operating head    | Linear                                           |
| Type of operator              | Spring return roller lever plunger thermoplastic |
| Type of approach              | Lateral approach 1 direction                     |
| Cable entry                   | 3 entries tapped for 1/2" NPT cable gland        |
| 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>                                                                                                                                                                                                                                                                                                                                                                   |
| Contacts insulation form                                  | Zb                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Number of steps                                           | 1                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Positive opening                                          | With                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Positive opening minimum force                            | 24 N                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Minimum force for tripping                                | 8 N                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Minimum actuation speed                                   | 0.01 m/min                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Maximum actuation speed                                   | 4.92 ft/s (1.5 m/s)                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Contact code designation                                  | A300, AC-15 (U <sub>e</sub> = 240 V, I <sub>e</sub> = 3 A) conforming to EN/IEC 60947-5-1 appendix A<br>Q300, DC-13 (U <sub>e</sub> = 250 V, I <sub>e</sub> = 0.27 A) conforming to EN/IEC 60947-5-1 appendix A                                                                                                                                                                                                                                |
| [I <sub>the</sub> ] conventional enclosed thermal current | 10 A AC                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| [U <sub>i</sub> ] 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                                                                                                                                                                                                                                                                                                                                                                                                |
| [U <sub>imp</sub> ] rated impulse withstand voltage       | 6 kV conforming to IEC 60664<br>6 kV conforming to IEC 60947-1                                                                                                                                                                                                                                                                                                                                                                                 |
| Short-circuit protection                                  | 10 A by gG cartridge fuse                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Electrical durability                                     | 5000000 cycles, DC-13, inductive load type, 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, inductive load type, 24 V, 7 W, operating rate: <= 60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C<br>5000000 cycles, DC-13, inductive load type, 48 V, 10 W, operating rate: <= 60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C |
| Mechanical durability                                     | 20000000 cycles                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Width                                                     | 2.52 in (64 mm)                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Height                                                    | 2.52 in (64 mm)                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Depth                                                     | 1.18 in (30 mm)                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Terminals description ISO n°1                             | (13-14)NO<br>(21-22)NC                                                                                                                                                                                                                                                                                                                                                                                                                         |

## Environment

|                                       |                                                                                         |
|---------------------------------------|-----------------------------------------------------------------------------------------|
| shock resistance                      | 50 gn (duration = 11 ms) conforming to EN/IEC 60068-2-27                                |
| vibration resistance                  | 25 gn (f = 10...500 Hz) conforming to EN/IEC 60068-2-6                                  |
| IP degree of protection               | IP66 conforming to EN/IEC 60529                                                         |
| IK degree of protection               | IK05 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 |

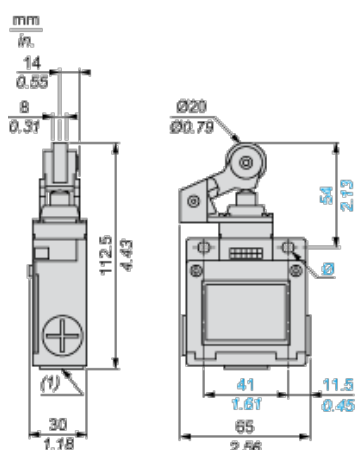
## Offer Sustainability

|                                                                                                                            |                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Not Green Premium product                                                                                                  | Not Green Premium product                                                                                                  |
| Will not be Compliant                                                                                                      | Will not be Compliant                                                                                                      |
| 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

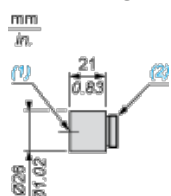
|                 |           |
|-----------------|-----------|
| Warranty period | 18 months |
|-----------------|-----------|

## Dimensions



(1) Tapped entry for 1/2 "NPT

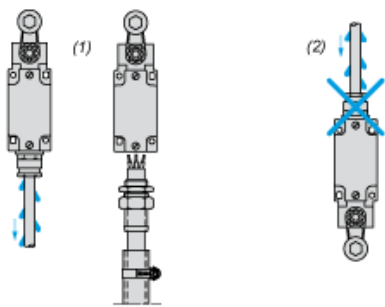
Ø : 2 elongated holes Ø 5.2 x 6.2



- (1) Tapped entry for 1/2" NPT conduit
- (2) Pg 11 threaded sleeve

## Mounting with Cable Entry

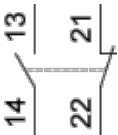
### Position of Cable Gland



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

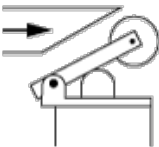
## Wiring Diagram

### 2-pole NC + NO Snap Action

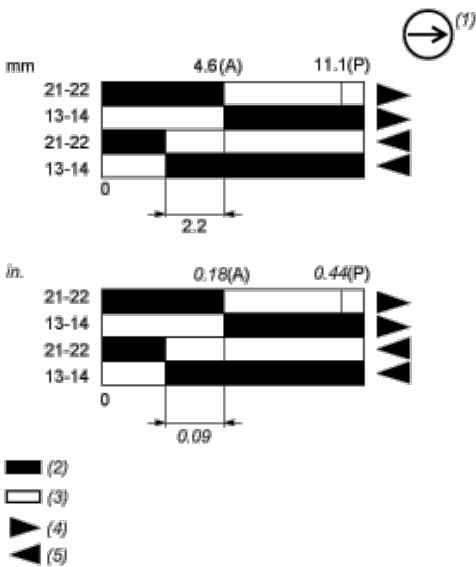


## Characteristics of Actuation

### Switch Actuation by 30° Cam



## Functionnal Diagram



- (2) Closed
- (3) Open
- (4) Tripping
- (5) Resetting



**Стандарт  
Электрон  
Связь**

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