

Product availability: Non-Stock - Not normally stocked in distribution facility



### Main

|                               |                                                                      |
|-------------------------------|----------------------------------------------------------------------|
| Range of product              | OsiSense XC                                                          |
| Series name                   | Standard format                                                      |
| Product or component type     | Limit switch                                                         |
| Device short name             | XCKS                                                                 |
| Sensor design                 | Form B CENELEC EN 50041                                              |
| 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 M20 x 1.5 cable gland 0.28... 0.51 in (7...13 mm) |
| 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>                                                                             |
| Contacts insulation form                     | Zb                                                                                                                                  |
| Number of steps                              | 1                                                                                                                                   |
| Positive opening                             | With                                                                                                                                |
| Positive opening minimum force               | 30 N                                                                                                                                |
| Minimum force for tripping                   | 15 N                                                                                                                                |
| Minimum actuation speed                      | 6 m/min                                                                                                                             |
| Maximum actuation speed                      | 1.64 ft/s (0.5 m/s)                                                                                                                 |
| Repeat accuracy                              | 0.05 mm on the tripping points with 1 million operating cycles                                                                      |
| Contact code designation                     | A300, AC-15 (Ue = 240 V), Ie = 3 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 |
| [Ithe] conventional enclosed thermal current | 10 A AC                                                                                                                             |
| [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                                                                                                              |

The information provided in this documentation contains general descriptions and/or technical characteristics of the products of the company. It is not intended to be used as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

|                               |                                                                                                                                                                                                                                                                  |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Electrical durability         | 5000000 Cycles, DC-13, inductive, 120 V, 4 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C<br>5000000 Cycles, DC-13, inductive, 24 V, 10 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C<br>5000000 cycles, DC-13, inductive, 48 V, 7 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C |
| Mechanical durability         | 25000000 cycles                                                                                                                                                                                                                                                  |
| Width                         | 1.57 in (40 mm)                                                                                                                                                                                                                                                  |
| Height                        | 4.09 in (104 mm)                                                                                                                                                                                                                                                 |
| Depth                         | 1.46 in (37 mm)                                                                                                                                                                                                                                                  |
| Product weight                | 0.28 lb(US) (0.125 kg)                                                                                                                                                                                                                                           |
| Terminals description ISO n°1 | (21-22)NC<br>(13-14)NO                                                                                                                                                                                                                                           |

## 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               | IP67 IEC 60529<br>IP66 IEC 60529                                                                            |
| IK degree of protection               | IK05 EN 50102                                                                                               |
| Electrical shock protection class     | Class II IEC 61140<br>Class II NF C 20-030                                                                  |
| Overvoltage category                  | 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                | UL<br>CCC<br>CSA                                                                                            |
| Standards                             | UL 508<br>EN 60947-5-1<br>IEC 60947-5-1<br>CENELEC EN 50041<br>EN 60204-1<br>CSA C22.2 No 14<br>IEC 60204-1 |

## Ordering and shipping details

|                     |                                    |
|---------------------|------------------------------------|
| Category            | 22417 - LIMIT SWITCH, IEC, CLASSIC |
| Discount Schedule   | T                                  |
| GTIN                | 03389110514575                     |
| Package weight(Lbs) | 0.23 lb(US) (0.105 kg)             |
| Returnability       | No                                 |
| Country of origin   | ID                                 |

## Offer Sustainability

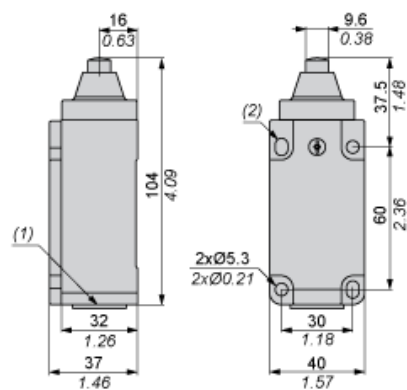
|                           |                                                                                                                                                                                                                                                                                                              |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status  | Green Premium product                                                                                                                                                                                                                                                                                        |
| California proposition 65 | WARNING: This product can expose you to chemicals including: Di-isodecyl phthalate (DIDP) and Diisononyl phthalate (DINP) which is known to the State of California to cause Carcinogen and 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>                                                                                                                                                                                                               |
| Environmental Disclosure  | <a href="#">Product Environmental Profile</a>                                                                                                                                                                                                                                                                |
| Circularity Profile       | <a href="#">End Of Life Information</a>                                                                                                                                                                                                                                                                      |

## Contractual warranty

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

## Dimensions

mm  
in.



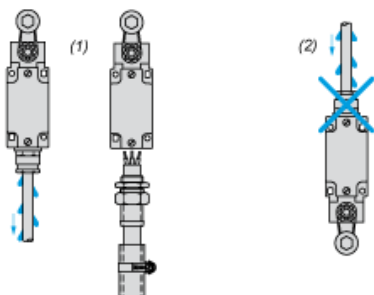
- (1) 1 tapped entry for M20 x 1.5
- (2) 2 elongated holes Ø 5.3 x 7.3.

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Mounting with Cable Entry

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Position of Cable Gland



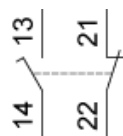
- (1) Recommended  
(2) To be avoided

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Wiring Diagram

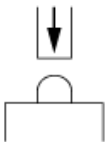
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2-pole NC + NO Break Before Make, Slow Break

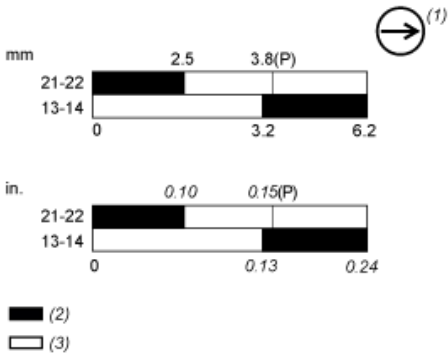


Characteristics of Actuation

Switch Actuation on End



Functionnal Diagram



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