



## Main

|                               |                                          |
|-------------------------------|------------------------------------------|
| Range of Product              | Telemecanique Limit switches XC Standard |
| Series name                   | Standard format                          |
| Product or Component Type     | Limit switch                             |
| Device short name             | XCKD                                     |
| Sensor design                 | Compact                                  |
| Body type                     | Fixed                                    |
| Head type                     | Multi-directional head                   |
| Material                      | Metal                                    |
| Body Material                 | Zamak                                    |
| Head material                 | Zamak                                    |
| Fixing Mode                   | By the body                              |
| Movement of operating head    | Multi-directional                        |
| Type of operator              | Spring return cat's whisker              |
| Type of approach              | Multi-directional approach               |
| Number of poles               | 2                                        |
| Contacts type and composition | 1 NC + 1 NO                              |
| Contact operation             | Snap action                              |

## Complementary

|                                        |                                                                                                                                                                                                                                                  |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Switch actuation                       | By any moving part                                                                                                                                                                                                                               |
| Electrical connection                  | Screw-clamp terminals 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                       | Without                                                                                                                                                                                                                                          |
| Minimum torque for tripping            | 1.15 lbf.in (0.13 N.m)                                                                                                                                                                                                                           |
| 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 10 A EN 60947-5-1<br>A300, AC-15 (Ue = 240 V), Ie = 3 A 10 A IEC 60947-5-1 appendix A<br>Q300, DC-13 (Ue = 250 V), Ie = 0.27 A EN 60947-5-1<br>Q300, DC-13 (Ue = 250 V), Ie = 0.27 A IEC 60947-5-1 appendix A |
| [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                                                                                                                                                                                                                           |
| Electrical durability                  | 5000000 Cycles, DC-13, 120 V, 4 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C<br>5000000 Cycles, DC-13, 24 V, 10 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C<br>5000000 cycles, DC-13, 48 V, 7 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C                  |
| Mechanical durability                  | 5000000 cycles                                                                                                                                                                                                                                   |
| Width                                  | 1.22 in (31 mm)                                                                                                                                                                                                                                  |
| Height                                 | 2.56 in (65 mm)                                                                                                                                                                                                                                  |
| Depth                                  | 1.18 in (30 mm)                                                                                                                                                                                                                                  |

|                               |                        |
|-------------------------------|------------------------|
| Net Weight                    | 0.39 lb(US) (0.175 kg) |
| Terminals description ISO n°1 | (13-14)NO<br>(21-22)NC |

## 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               | IP66IEC 60529<br>IP67IEC 60529                                                          |
| IK degree of protection               | IK06 EN 50102                                                                           |
| Electrical shock protection class     | Class I IEC 61140<br>Class I 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                             | IEC 60947-5-1<br>UL 508<br>IEC 60204-1<br>EN 60204-1<br>CSA C22.2 No 14<br>EN 60947-5-1 |

## Ordering and shipping details

|                   |                                  |
|-------------------|----------------------------------|
| Category          | 22418-LIMIT SWITCH,IEC,XCKP&XCKT |
| Discount Schedule | T                                |
| GTIN              | 3389110310177                    |
| Returnability     | No                               |
| Country of origin | FR                               |

## Packing Units

|                              |                        |
|------------------------------|------------------------|
| Unit Type of Package 1       | PCE                    |
| Number of Units in Package 1 | 1                      |
| Package 1 Height             | 1.30 in (3.3 cm)       |
| Package 1 Width              | 1.50 in (3.8 cm)       |
| Package 1 Length             | 7.87 in (20.0 cm)      |
| Package 1 Weight             | 5.78 oz (164.0 g)      |
| Unit Type of Package 2       | S01                    |
| Number of Units in Package 2 | 12                     |
| Package 2 Height             | 5.91 in (15.0 cm)      |
| Package 2 Width              | 5.91 in (15.0 cm)      |
| Package 2 Length             | 15.75 in (40.0 cm)     |
| Package 2 Weight             | 5.17 lb(US) (2.347 kg) |

## Offer Sustainability

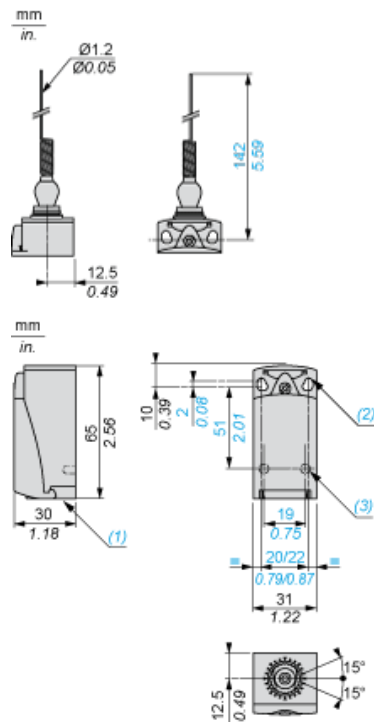
|                           |                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status  | Green Premium product                                                                                                                                                                                                                                                                                                                                                             |
| California proposition 65 | WARNING: This product can expose you to chemicals including: 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. 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>                                                                                                                                                                                              |
| Mercury free              | Yes                                                                                                                                                                                                                                                                                                                                                                               |

|                            |                                                                                                                                 |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| RoHS exemption information |  Yes                                            |
| Environmental Disclosure   |  <a href="#">Product Environmental Profile</a> |

Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 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.

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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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## Setting-up

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### Plunger or Multi-directional Heads

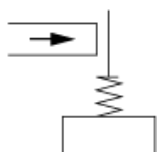


Wiring Diagram

2-pole NC + NO Snap Action



### Switch Actuation by Any Moving Part



## Functionnal Diagram



-  (1)  
 (2)  
 (4)  
 (5)

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