

# XCKL110

Limit switch, Limit switches XC Standard, XCKL, metal end plunger, 1NC+1 NO, snap action, Cable gland



## Main

|                               |                                                        |
|-------------------------------|--------------------------------------------------------|
| Range of Product              | Telemecanique Limit switches XC Standard               |
| Series name                   | Standard format                                        |
| Product or Component Type     | Limit switch                                           |
| Device short name             | XCKL                                                   |
| 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 plunger metal                            |
| Type of approach              | Vertical approach, 1 direction                         |
| Cable entry                   | 1 metal cable gland entry 0.24...0.53 in (6...13.5 mm) |
| Number of poles               | 2                                                      |
| Contacts type and composition | 1 NC + 1 NO                                            |
| Contact operation             | Snap action                                            |

## Complementary

|                                              |                                                                                                                                                                                                                                                                  |
|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Switch actuation                             | On end                                                                                                                                                                                                                                                           |
| Electrical connection                        | Screw-clamp terminals 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               | 45 N                                                                                                                                                                                                                                                             |
| Minimum force for tripping                   | 15 N                                                                                                                                                                                                                                                             |
| Minimum actuation speed                      | 0.01 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                                                                                                                                                                                                                                           |
| 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, 7 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C<br>5000000 cycles, DC-13, inductive, 48 V, 10 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C |
| Mechanical durability                        | 20000000 cycles                                                                                                                                                                                                                                                  |

|                               |                        |
|-------------------------------|------------------------|
| Width                         | 2.05 in (52 mm)        |
| Height                        | 2.83 in (72 mm)        |
| Depth                         | 1.18 in (30 mm)        |
| Net Weight                    | 0.56 lb(US) (0.255 kg) |
| Terminals description ISO n°1 | (13-14)NO<br>(21-22)NC |

## Environment

|                                       |                                                                                         |
|---------------------------------------|-----------------------------------------------------------------------------------------|
| Shock resistance                      | 50 gn 11 ms EN/IEC 60068-2-27                                                           |
| Vibration resistance                  | 25 gn 10...500 Hz)EN/IEC 60068-2-6                                                      |
| IP degree of protection               | IP66 conforming to EN/IEC 60529                                                         |
| IK degree of protection               | IK05 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                | CSA<br>UL                                                                               |
| Standards                             | IEC 60947-5-1<br>UL 508<br>EN 60947-5-1<br>CSA C22.2 No 14<br>IEC 60204-1<br>EN 60204-1 |

## Ordering and shipping details

|                       |                               |
|-----------------------|-------------------------------|
| Category              | 22416-LIMIT SWITCHES,IEC,XCKL |
| Discount Schedule     | T                             |
| GTIN                  | 3389110646474                 |
| Nbr. of units in pkg. | 1                             |
| Package weight(Lbs)   | 9.24 oz (262.0 g)             |
| Returnability         | Yes                           |
| Country of origin     | FR                            |

## Packing Units

|                              |                        |
|------------------------------|------------------------|
| Unit Type of Package 1       | PCE                    |
| Package 1 Height             | 1.26 in (3.2 cm)       |
| Package 1 width              | 5.59 in (14.2 cm)      |
| Package 1 Length             | 2.52 in (6.4 cm)       |
| Unit Type of Package 2       | S01                    |
| Number of Units in Package 2 | 15                     |
| Package 2 Weight             | 9.09 lb(US) (4.123 kg) |
| Package 2 Height             | 5.91 in (15 cm)        |
| Package 2 width              | 5.91 in (15 cm)        |
| Package 2 Length             | 15.75 in (40 cm)       |

## Offer Sustainability

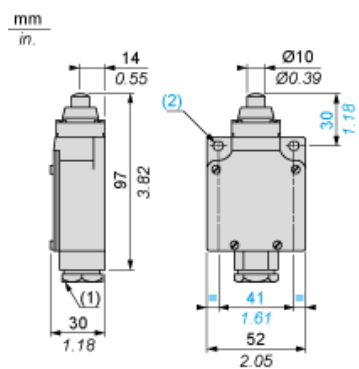
|                           |                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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) Pg 13.5 cable gland  
Ø: 2 elongated holes Ø 5.2 x 6.2

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## Mounting with Cable Entry

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### Position of Cable Gland



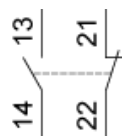
- (1) Recommended
- (2) To be avoided

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## Wiring Diagram

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2-pole NC + NO Snap Action

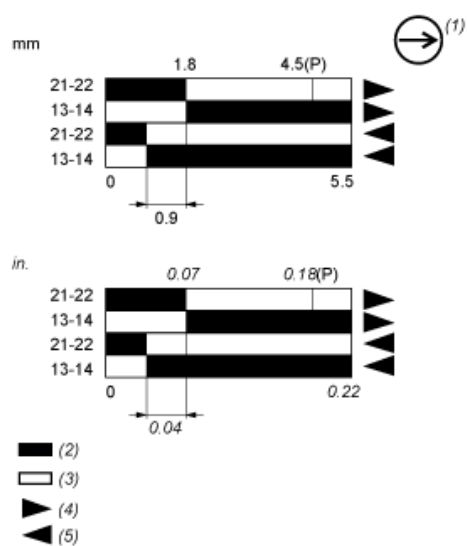


## Characteristics of Actuation

### 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

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