



## Main

|                               |                                          |
|-------------------------------|------------------------------------------|
| Range of product              | Telemecanique Limit switches XC Standard |
| Series name                   | Standard format                          |
| Product or component type     | Limit switch                             |
| Device short name             | XCKN                                     |
| Sensor design                 | Compact form B                           |
| 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 Pg 11 cable gland     |
| Number of poles               | 2                                        |
| Contacts type and composition | 2 NC                                     |
| Contact operation             | Snap action                              |



## Complementary

|                                |                                                                              |
|--------------------------------|------------------------------------------------------------------------------|
| Switch actuation               | On end                                                                       |
| Electrical connection          | Screw-clamp terminals, clamping capacity: 1 x 0.34...2 x 1.5 mm <sup>2</sup> |
| Contacts insulation form       | Zb                                                                           |
| Positive opening               | With                                                                         |
| Positive opening minimum force | 30 N                                                                         |
| Minimum force for tripping     | 15 N                                                                         |
| Minimum actuation speed        | 0.01 m/min                                                                   |
| Maximum actuation speed        | 0.5 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, Ithe = 10 A conforming to EN/IEC 60947-5-1 appendix A<br>Q300, DC-13 (Ue = 250 V), Ie = 0.27 A conforming to EN/IEC 60947-5-1 appendix A                                                                                                                                                                                           |
| [Ui] rated insulation voltage          | 300 V conforming to UL 508<br>500 V (pollution degree 3) conforming to IEC 60947-1<br>300 V conforming to CSA C22.2 No 14                                                                                                                                                                                                                                              |
| [Uimp] rated impulse withstand voltage | IEC 60664 6 kV<br>IEC 60947-1 6 kV                                                                                                                                                                                                                                                                                                                                     |
| 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 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 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 conforming to IEC 60947-5-1 appendix C |
| Mechanical durability                  | 10000000 cycles                                                                                                                                                                                                                                                                                                                                                        |
| Width                                  | 30 mm                                                                                                                                                                                                                                                                                                                                                                  |
| Height                                 | 75 mm                                                                                                                                                                                                                                                                                                                                                                  |
| Depth                                  | 30 mm                                                                                                                                                                                                                                                                                                                                                                  |
| Net weight                             | 0.135 kg                                                                                                                                                                                                                                                                                                                                                               |
| Terminals description ISO n°1          | (21-22)NC<br>(11-12)NC                                                                                                                                                                                                                                                                                                                                                 |

## Environment

|                                       |                                                                                         |
|---------------------------------------|-----------------------------------------------------------------------------------------|
| Shock resistance                      | 45 gn for 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 | -25...70 °C                                                                             |
| Ambient air temperature for storage   | -40...70 °C                                                                             |
| Protective treatment                  | TC                                                                                      |
| Product certifications                | UL<br>CCC<br>CSA                                                                        |
| Standards                             | UL 508<br>EN 60947-5-1<br>CSA C22.2 No 14<br>EN 60204-1<br>IEC 60204-1<br>IEC 60947-5-1 |

## Packing Units

|                              |           |
|------------------------------|-----------|
| Unit Type of Package 1       | PCE       |
| Number of Units in Package 1 | 1         |
| Package 1 Weight             | 64 g      |
| Package 1 Height             | 3 cm      |
| Package 1 width              | 3 cm      |
| Package 1 Length             | 7.5 cm    |
| Unit Type of Package 2       | BB1       |
| Number of Units in Package 2 | 20        |
| Package 2 Weight             | 1.27 kg   |
| Package 2 Height             | 11 cm     |
| Package 2 width              | 12.8 cm   |
| Package 2 Length             | 17 cm     |
| Unit Type of Package 3       | S03       |
| Number of Units in Package 3 | 160       |
| Package 3 Weight             | 10.857 kg |
| Package 3 Height             | 30 cm     |

|                  |       |
|------------------|-------|
| Package 3 width  | 30 cm |
| Package 3 Length | 40 cm |

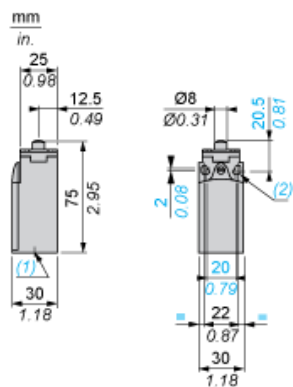
### Offer Sustainability

|                            |                                                                                                                                                                                    |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                                                                              |
| 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 | <a href="#"> Yes</a>                                                                              |
| Environmental Disclosure   | <a href="#"> Product Environmental Profile</a>                                                    |

### Contractual warranty

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

## Dimensions



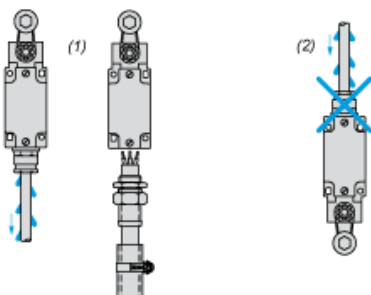
- (1) 1 tapped entry for Pg 11 cable gland  
(2) Ø: 2 elongated holes Ø 4.3 x 6.3 on 22 mm centres, 2 holes Ø 4.3 on 20 mm centres.

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## Mounting with Cable Entry

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### Position of Cable Gland



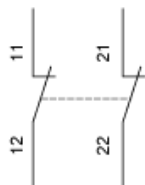
- (1) Recommended
- (2) To be avoided

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## Wiring Diagram

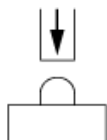
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### 2-pole NC + NC Snap Action

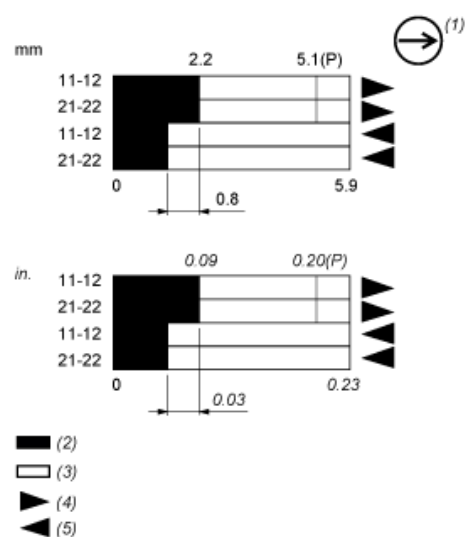


## Characteristics of Actuation

### 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