



## Main

|                               |                                                  |
|-------------------------------|--------------------------------------------------|
| Range of product              | Telemecanique Limit switches XC Standard         |
| Series name                   | Standard format                                  |
| Product or component type     | Limit switch                                     |
| Device short name             | XCNR                                             |
| Sensor design                 | Compact                                          |
| Reset                         | With                                             |
| 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 roller lever plunger thermoplastic |
| Type of approach              | Vertical approach, 1 direction                   |
| Number of poles               | 2                                                |
| Contacts type and composition | 2 NC                                             |
| 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>                                                                                                |
| Cable entry                            | 1 entry tapped for Pg 11 cable gland                                                                                                                                        |
| Contacts insulation form               | Zb                                                                                                                                                                          |
| Positive opening                       | With                                                                                                                                                                        |
| Positive opening minimum force         | 10 N                                                                                                                                                                        |
| Minimum force for tripping             | 6 N                                                                                                                                                                         |
| Maximum actuation speed                | 1 m/s                                                                                                                                                                       |
| 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>R300, DC-13 (Ue = 250 V), Ie = 0.1 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 EN/IEC 60947-1<br>300 V conforming to CSA C22.2 No 14                                                |
| [Uimp] rated impulse withstand voltage | 6 kV conforming to IEC 60664<br>6 kV conforming to IEC 60947-1                                                                                                              |
| Short-circuit protection               | 10 A cartridge fuse, type gG                                                                                                                                                |
| Mechanical durability                  | 100000 cycles                                                                                                                                                               |

## Environment

|                                   |                                                                       |
|-----------------------------------|-----------------------------------------------------------------------|
| Shock resistance                  | 50 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                                           |
| Electrical shock protection class | Class II conforming to IEC 61140<br>Class II conforming to NF C 20030 |

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

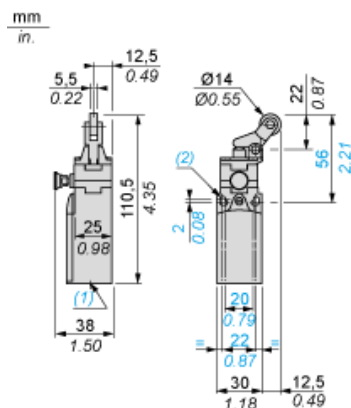
## Packing Units

|                              |     |
|------------------------------|-----|
| Unit Type of Package 1       | PCE |
| Number of Units in Package 1 | 1   |

## Contractual warranty

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

## Dimensions



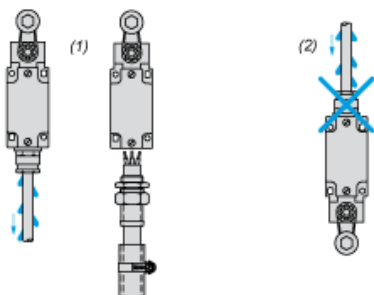
- (1) 1 tapped entry for Pg 11 cable gland  
(2) Ø: 2 elongated holes Ø 4.3 x 6.3 on 22 mm centres, 2 holes Ø 4.3 on 20 mm centres.

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## Mounting with Cable Entry

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### Position of Cable Gland



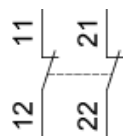
- (1) Recommended  
(2) To be avoided

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## Wiring Diagrams

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### 2-pole NC + NC Snap Action

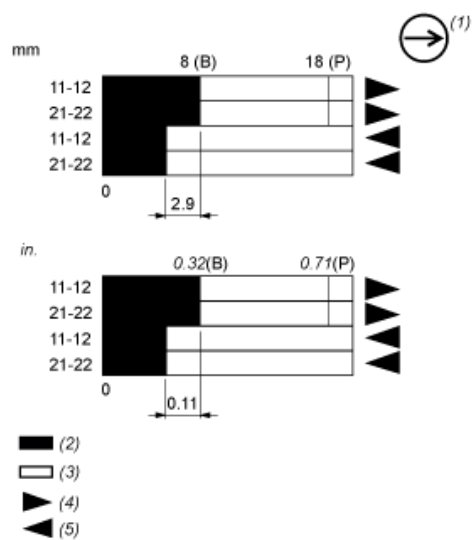


## Characteristics of Actuation

### Switch Actuation by 30° Cam



## Functionnal Diagram



- (P) Positive opening point
- (B) Cam displacement
- (1) NC contact with positive opening operation
- (2) Closed
- (3) Open
- (4) Tripping
- (5) Resetting