

Product Life Status : **END OF STANDARD SERVICE**

TODAY  
FEB 21, 2021

End of Commercialization  
OCT 30, 2020

End of Standard Service  
OCT 30, 2020



## 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                     | Plunger head                                     |
| Material                      | Metal  |
| Body material                 | Zamak  |
| Head material                 | Zamak  |
| Fixing mode                   | By the body                                      |
| Movement of operating head    | Linear   |
| Type of operator              | Spring return roller lever plunger thermoplastic |
| Type of approach              | Lateral or vertical approach, 1 direction        |
| Number of poles               | 2  |
| Contacts type and composition | 1 NC + 1 NO                                      |
| Contact operation             | Snap action                                      |

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## 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 13.5 cable gland   |
| Contacts insulation form       | Zb   |
| Positive opening               | With   |
| Positive opening minimum force | 18 N   |
| Minimum force for tripping     | 6 N  |
| Maximum actuation speed        | 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, 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  |
| Maximum resistance across terminals    | 25 MOhm conforming to 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, 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                  | 15000000 cycles  |
| Width                                  | 31 mm  |
| Height                                 | 65 mm  |
| Depth                                  | 30 mm  |
| Net weight                             | 0.205 kg   |
| Terminals description ISO n°1          | (21-22)NC<br>(13-14)NO   |



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

## Packing Units

|                  |          |
|------------------|----------|
| Package 1 Weight | 0.188 kg |
| Package 1 Height | 1.230 dm |
| Package 1 width  | 0.310 dm |
| Package 1 Length | 0.310 dm |

## Offer Sustainability

|                          |   |
|--------------------------|---|
| REACH Regulation         | <a href="#"> REACH Declaration</a>             |
| EU RoHS Directive        | Not applicable, out of EU RoHS legal scope  |
| Environmental Disclosure | <a href="#"> Product Environmental Profile</a> |

## Contractual warranty

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

- (1) Tapped entry for Pg 13.5 cable gland
- (2) 2 elongated holes  $\varnothing$  4.3 x 6.3 mm on 22 mm centres, 2 holes  $\varnothing$  4.3 on 20 mm centres.

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## Mounting with Cable Entry

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### Position of Cable Gland



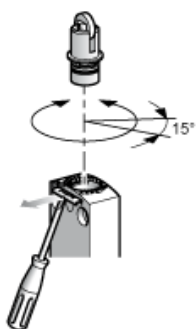
- (1) Recommended
- (2) To be avoided

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## Setting-up

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### Plunger or Multi-directional Heads



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## Wiring Diagram

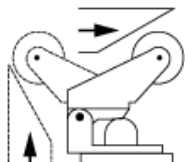
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2-pole NC + NO Snap Action

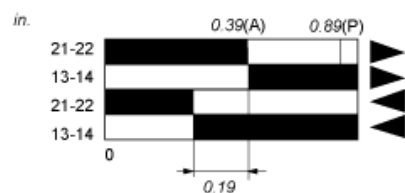
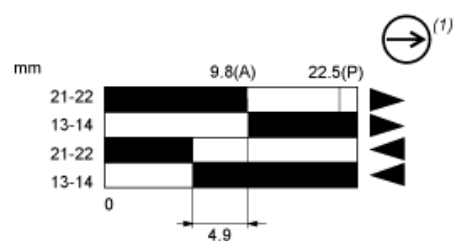


## Characteristics of Actuation

### Switch Actuation by 30° Cam



## Functionnal Diagram



■ (2)

□ (3)

▶ (4)

◀ (5)

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