

# XCKP2149P16

limit switch XCKP - plastic roller lever Ø50  
var.length - 1NC+1NO - snap - M16



## Main

|                               |                                                                                 |
|-------------------------------|---------------------------------------------------------------------------------|
| Range of product              | Telemecanique Limit switches XC Standard                                        |
| Series name                   | Standard format                                                                 |
| Product or component type     | Limit switch                                                                    |
| Device short name             | XCKP                                                                            |
| Sensor design                 | Compact                                                                         |
| Body type                     | Fixed                                                                           |
| Head type                     | Rotary head                                                                     |
| Material                      | Plastic                                                                         |
| Body material                 | Plastic                                                                         |
| Head material                 | Zamak                                                                           |
| Fixing mode                   | By the body                                                                     |
| Movement of operating head    | Rotary                                                                          |
| Type of operator              | Spring return roller lever thermoplastic variable length, roller diameter 50 mm |
| Type of approach              | Lateral approach, 2 directions                                                  |
| Number of poles               | 2                                                                               |
| Contacts type and composition | 1 NC + 1 NO                                                                     |
| 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 M16 x 1.5 cable gland, cable outer diameter: 4...8 mm                                                                                                                                                                                                                                                                                               |
| Contacts insulation form               | Zb                                                                                                                                                                                                                                                                                                                                                                     |
| Positive opening                       | With                                                                                                                                                                                                                                                                                                                                                                   |
| Minimum torque for tripping            | 0.1 N.m                                                                                                                                                                                                                                                                                                                                                                |
| Maximum actuation speed                | 1.5 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                                                                                                                                                                                                                                              |
| Maximum resistance across terminals    | 25 MOhm conforming to IEC 60255-7 category 3                                                                                                                                                                                                                                                                                                                           |
| [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                                  | 31 mm                                                                                                                                                                                                                                                                                                                                                                  |
| Height                                 | 65 mm                                                                                                                                                                                                                                                                                                                                                                  |

|                               |                        |
|-------------------------------|------------------------|
| Depth                         | 30 mm                  |
| Net weight                    | 0.155 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                                      |
| IP degree of protection               | IP66 conforming to IEC 60529<br>IP67 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 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                             | EN 60947-5-1<br>UL 508<br>IEC 60947-5-1<br>EN 60204-1<br>IEC 60204-1<br>CSA C22.2 No 14 |

## Packing Units

|                              |         |
|------------------------------|---------|
| Unit Type of Package 1       | PCE     |
| Number of Units in Package 1 | 1       |
| Package 1 Weight             | 152 g   |
| Package 1 Height             | 5.3 cm  |
| Package 1 width              | 6 cm    |
| Package 1 Length             | 19.3 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>                                                    |
| Circularity Profile        |  <a href="#">End of Life Information</a>                                                          |

## Contractual warranty

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

- (1) Tapped entry for M16 x 1.5
- (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.

## Mounting with Cable Entry

### Position of Cable Gland



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

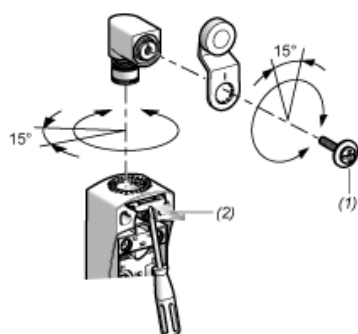
## Mounting with Rotary Heads and Levers

### Type of Cam



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

## Setting-up with Head ZCE01 and ZCE09



- (1) Tightening torque (Min : 1) (Max : 1.5)
- (2) Tightening torque (Min : 0.8) (Max : 1.2)

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## Wiring Diagram

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2-pole NC + NO Snap Action

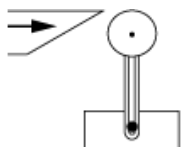


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## Characteristics of Actuation

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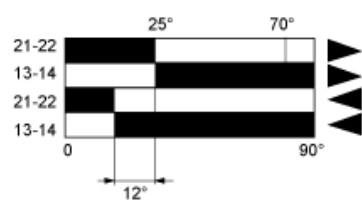
### Switch Actuation by 30° Cam



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## Functionnal Diagram

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

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