

## 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 without operating lever    |
| Type of approach              | Lateral approach, 2 directions           |
| Number of poles               | 2                                        |
| Contacts type and composition | 1 NC + 1 NO                              |
| Contact operation             | Snap action                              |

## Complementary

|                                              |                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Electrical connection                        | Male connector M12, 4 pins                                                                                                                                                                                                                                                                                                                                             |
| Contacts insulation form                     | Zb                                                                                                                                                                                                                                                                                                                                                                     |
| Positive opening                             | With                                                                                                                                                                                                                                                                                                                                                                   |
| Positive opening minimum torque              | 0.25 N.m                                                                                                                                                                                                                                                                                                                                                               |
| Minimum torque for tripping                  | 0.1 N.m                                                                                                                                                                                                                                                                                                                                                                |
| Maximum actuation speed                      | 1.5 m/s                                                                                                                                                                                                                                                                                                                                                                |
| [Ie] rated operational current               | 3 A at 240 V, AC-15 conforming to EN/IEC 60947-5-1 appendix A<br>0.27 A at 250 V, DC-13 conforming to EN/IEC 60947-5-1 appendix A                                                                                                                                                                                                                                      |
| [Ithe] conventional enclosed thermal current | 3 A                                                                                                                                                                                                                                                                                                                                                                    |
| [Ui] rated insulation voltage                | 300 V conforming to UL 508<br>300 V conforming to CSA C22.2 No 14<br>250 V (pollution degree 3) conforming to IEC 60947-1                                                                                                                                                                                                                                              |
| Maximum resistance across terminals          | 25 MOhm conforming to IEC 60255-7 category 3                                                                                                                                                                                                                                                                                                                           |
| [Uimp] rated impulse withstand voltage       | 2.5 KV conforming to IEC 60664<br>2.5 kV conforming to IEC 60947-1                                                                                                                                                                                                                                                                                                     |
| Short-circuit protection                     | 4 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                    | 0.125 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                | CSA[RETURN]CCC[RETURN]UL                                                                |
| Standards                             | EN 60947-5-1<br>IEC 60204-1<br>UL 508<br>EN 60204-1<br>IEC 60947-5-1<br>CSA C22.2 No 14 |

## Packing Units

|                              |        |
|------------------------------|--------|
| Unit Type of Package 1       | PCE    |
| Number of Units in Package 1 | 1      |
| Package 1 Height             | 10 cm  |
| Package 1 Width              | 3.2 cm |
| Package 1 Length             | 4 cm   |
| Package 1 Weight             | 109 g  |

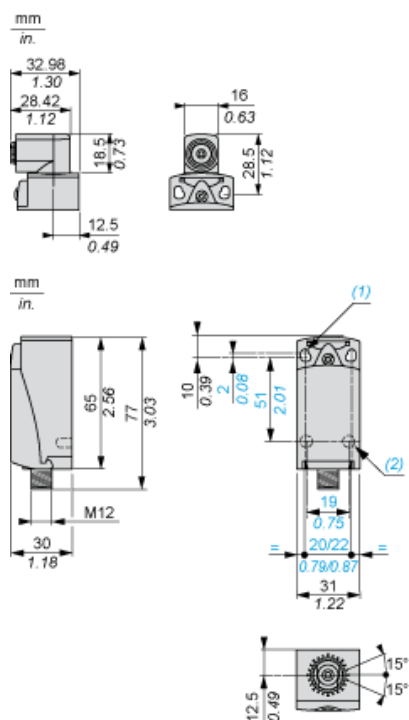
## Offer Sustainability

|                            |                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                                                                                                                                                                                                                                                                             |
| 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>                                                                                                                                                                                                                                                                           |
| 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> |

## Contractual warranty

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

## Dimensions



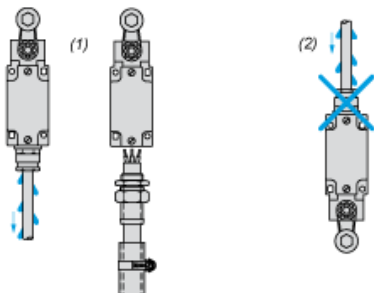
- (1) Tapped entry for M12
- (2) 2 elongated holes Ø 4.3 x 6.3 mm on 22 mm centres, 2 holes Ø 4.3 on 20 mm centres.
- (3) 2 x Ø 3 holes for support studs, depth 4 mm.

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## Mounting with Cable Entry

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### Position of Cable Gland



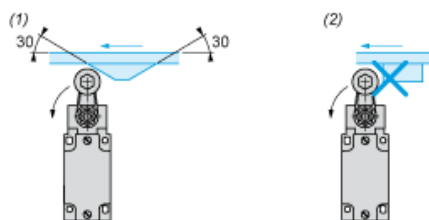
- (1) Recommended  
(2) To be avoided

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## Mounting with Rotary Heads and Levers

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### Type of Cam

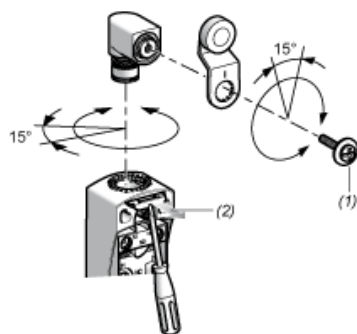


- (1) Recommended  
(2) To be avoided

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## Setting-up with Head ZCE01 and ZCE09

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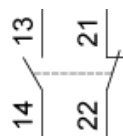
- (1) Tightening torque (Min : 1) (Max : 1.5)  
(2) Tightening torque (Min : 0.8) (Max : 1.2)

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## Wiring Diagram

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2-pole NC + NO Snap Action

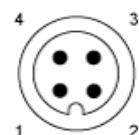


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## Connections

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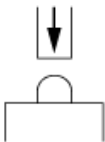
M12 Connector



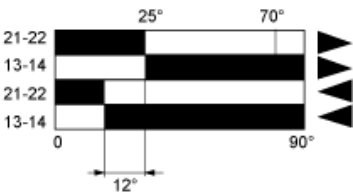
1-2 : NC  
3-4 : NO

Characteristics of Actuation

Switch Actuation on End



Functionnal Diagram



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

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