

Limit switch, Limit switches XC Standard,  
XCKP, glass fiber round rod lever 3 mm, 1NC  
+1 NO, 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 round rod lever glass fiber round rod 3 mm, L = 125 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 any moving part   |
| 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                        | Without  |
| 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 MΩ conforming to IEC 60255-7 category 3   |
| [Uiimp] 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   |
| 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 | (13-14)NO<br>(21-22)NC |

## 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                | CCC[RETURN]CSA[RETURN]UL  |
| Standards                             | IEC 60947-5-1<br>CSA C22.2 No 14<br>EN 60947-5-1<br>UL 508<br>IEC 60204-1<br>EN 60204-1 |

## Packing Units

|                              |           |
|------------------------------|-----------|
| Unit Type of Package 1       | PCE       |
| Number of Units in Package 1 | 1         |
| Package 1 Height             | 4.800 cm  |
| Package 1 Width              | 5.200 cm  |
| Package 1 Length             | 15.400 cm |
| Package 1 Weight             | 128.000 g |
| Unit Type of Package 2       | S02       |
| Number of Units in Package 2 | 22        |
| Package 2 Height             | 15.000 cm |
| Package 2 Width              | 30.000 cm |
| Package 2 Length             | 40.000 cm |
| Package 2 Weight             | 3.100 kg  |

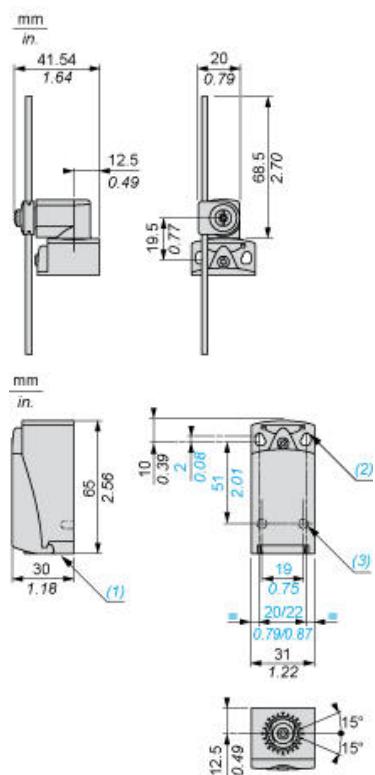
## Offer Sustainability

|  |   |
|--|---|
| Sustainable offer status                   | Green Premium product   |
| California proposition 65                  | WARNING: This product can expose you to chemicals including: Diisobutyl 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> |
| For all Reach Rohs enquiries contact us at | <a href="mailto:sustainability@tesensors.com">sustainability@tesensors.com</a>  |

## Contractual warranty

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

Dimensions



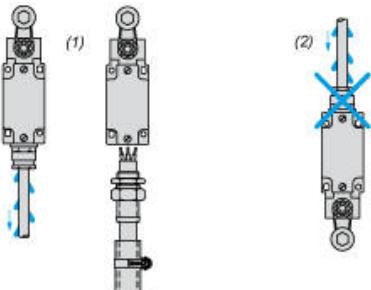
(1) Tapped entry for M16 x 1.5  
(2) 2 elongated holes Ø 4.3 x 6.3 mm on 22 mm centres, 2 holes Ø 4.3 on 20 mm centres.  
(3) 2 x Ø 3 holes for support studs, depth 4 mm.

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### Mounting with Cable Entry

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#### Position of Cable Gland



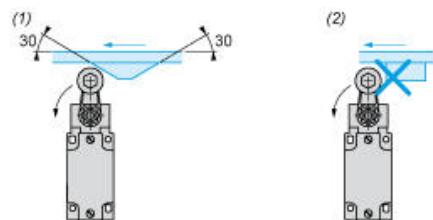
(1) Recommended  
(2) To be avoided

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### Mounting with Rotary Heads and Levers

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#### Type of Cam

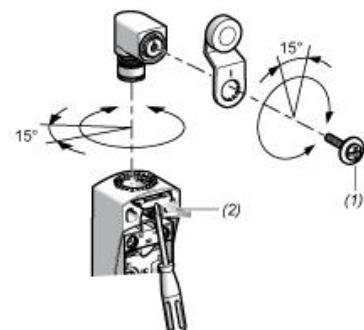


(1) Recommended  
(2) To be avoided

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### Setting-up with Head ZCE01 and ZCE09

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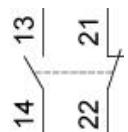
(1) Tightening torque (Min : 1) (Max : 1.5)  
(2) Tightening torque (Min : 0.8) (Max : 1.2)

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Wiring Diagram

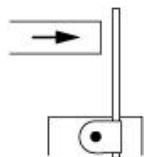
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2-pole NC + NO Snap Action



## Characteristics of Actuation

## Switch Actuation by Any Moving Part



## Functionnal Diagram

