



## Main

|                               |  |
|-------------------------------|--|
| Range of product              | OsiSense XC  |
| Series name                   | Standard format  |
| Product or component type     | Limit switch   |
| Device short name             | XCKS   |
| Sensor design                 | Form D conforming to CENELEC EN 50041                                  |
| Body type                     | Fixed  |
| Head type                     | Rotary head  |
| Material                      | Plastic  |
| Body material                 | Plastic  |
| Head material                 | Plastic  |
| Fixing mode                   | By the body  |
| Movement of operating head    | Rotary   |
| Type of operator              | Spring return round rod lever thermoplastic round rod 6 mm, L = 200 mm |
| Type of approach              | Lateral approach, 1 or 2 programmable direction                        |
| Cable entry                   | 1 entry tapped for M20 x 1.5 cable gland 0.28... 0.51 in (7...13 mm)   |
| Number of poles               | 2  |
| Contacts type and composition | 1 NC + 1 NO  |
| Contact operation             | Slow-break, break before make  |

## Complementary

|   |  |
|---|--|
| Switch actuation  | By any moving part   |
| Electrical connection                                     | Screw-clamp terminals 1 x 0.5...2 x 2.5 mm <sup>2</sup>  |
| Contacts insulation form                                  | Zb   |
| Number of steps   | 1  |
| Positive opening  | Without  |
| Minimum torque for tripping                               | 0.89 lbf.in (0.1 N.m)  |
| Minimum actuation speed                                   | 6 m/min  |
| Maximum actuation speed                                   | 3.28 ft/s (1 m/s)  |
| Contact code designation                                  | A300, AC-15 (U <sub>e</sub> = 240 V), I <sub>e</sub> = 3 A EN/IEC 60947-5-1 appendix A<br>Q300, DC-13 (U <sub>e</sub> = 250 V), I <sub>e</sub> = 0.27 A EN/IEC 60947-5-1 appendix A  |
| [I <sub>th</sub> e] conventional enclosed thermal current | 10 A AC  |
| [U <sub>i</sub> ] rated insulation voltage                | 300 VUL 508<br>500 V 3)IEC 60947-1<br>300 VCSA C22.2 No 14   |
| Maximum resistance across terminals                       | 25 MOhm IEC 60255-7 category 3   |
| [U <sub>imp</sub> ] rated impulse withstand voltage       | 6 KV IEC 60664<br>6 kV IEC 60947-1   |
| Short-circuit protection                                  | 10 A cartridge fuse gG   |
| Electrical durability                                     | 5000000 Cycles, DC-13, inductive, 120 V, 4 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C<br>5000000 Cycles, DC-13, inductive, 24 V, 10 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C<br>5000000 cycles, DC-13, inductive, 48 V, 7 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C |
| Mechanical durability                                     | 20000000 cycles  |

|                               |                               |
|-------------------------------|-------------------------------|
| Maximum Width                 | 1.57 in (40 mm)               |
| Height                        | 3.86...11.02 in (98...280 mm) |
| Depth                         | 2.17 in (55 mm)               |
| Net Weight                    | 0.37 lb(US) (0.17 kg)         |
| Terminals description ISO n°1 | (21-22)NC<br>(13-14)NO        |

## Environment

|                                       |   |
|---------------------------------------|---|
| Shock resistance                      | 50 gn 11 ms IEC 60068-2-27  |
| Vibration resistance                  | 25 gn 10...500 Hz IEC 60068-2-6   |
| IP degree of protection               | IP67 IEC 60529<br>IP66 IEC 60529  |
| IK degree of protection               | IK05 EN 50102   |
| Electrical shock protection class     | Class II IEC 61140<br>Class II NF C 20-030  |
| Overvoltage category                  | Class II conforming to IEC 61140<br>Class II conforming to NF C 20-030                                      |
| Ambient air temperature for operation | -13...158 °F (-25...70 °C)  |
| Ambient air temperature for storage   | -40...158 °F (-40...70 °C)  |
| Protective treatment                  | TC  |
| Product certifications                | CCC<br>CSA<br>UL  |
| Standards                             | IEC 60947-5-1<br>UL 508<br>EN 60947-5-1<br>CSA C22.2 No 14<br>IEC 60204-1<br>EN 60204-1<br>CENELEC EN 50041 |

## Ordering and shipping details

|                       |                                    |
|-----------------------|------------------------------------|
| Category              | 22417 - LIMIT SWITCH, IEC, CLASSIC |
| Discount Schedule     | T                                  |
| GTIN                  | 03389110903379                     |
| Nbr. of units in pkg. | 1                                  |
| Package weight(Lbs)   | 1 lb(US) (0.45 kg)                 |
| Returnability         | No                                 |
| Country of origin     | ID                                 |

## Packing Units

|                  |          |
|------------------|----------|
| Package 1 Height | 2.050 dm |
| Package 1 width  | 0.410 dm |
| Package 1 Length | 0.560 dm |

## Offer Sustainability

|                           |   |
|---------------------------|---|
| Sustainable offer status  | Green Premium product   |
| 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> |
| 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>  |
| Environmental Disclosure  | <a href="#">Product Environmental Profile</a>   |
| Circularity Profile       | <a href="#">End Of Life Information</a>   |

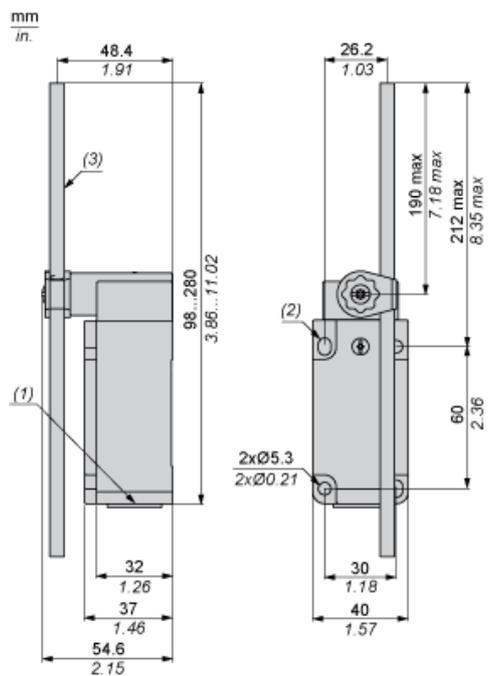
## Contractual warranty

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

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Dimensions



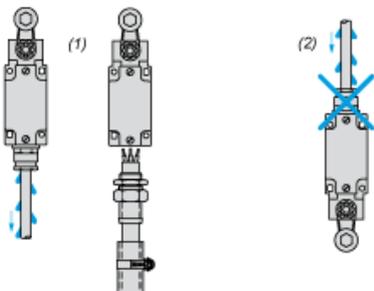
- (1) 1 tapped entry for M20 x 1.5
- (2) 2 elongated holes Ø 5.3 x 7.3.
- (3) Ø 6 rod, length 200 mm.

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### Mounting with Cable Entry

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#### Position of Cable Gland



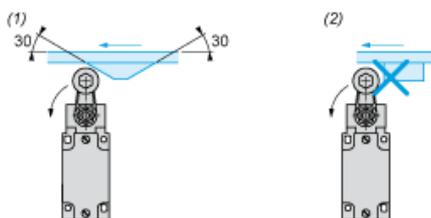
- (1) Recommended
- (2) To be avoided

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### Mounting with Rotary Heads and Levers

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#### Type of Cam



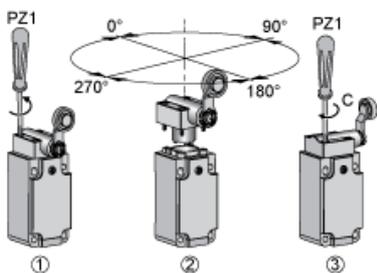
- (1) Recommended
- (2) To be avoided

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### Setting-up

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#### Head Rotation Adjustment



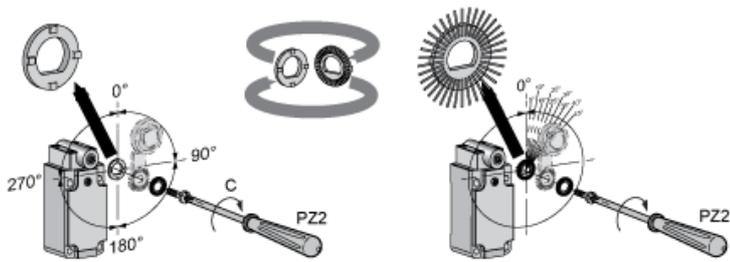
C : 1 Nm (+/- 20%) / 8.85 lb-in (+/- 20%)

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### Setting-up

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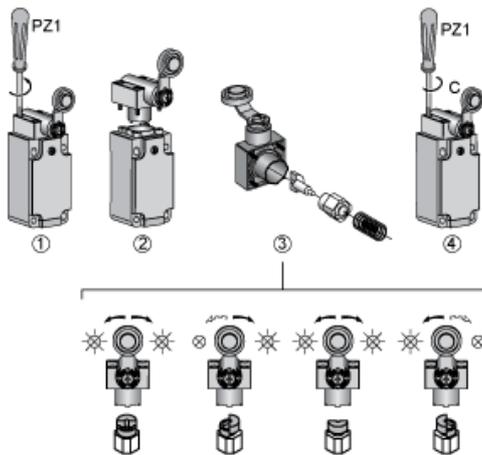
## Lever Angle Adjustment



C : 1 Nm (+/- 20%) / 8.85 lb-in (+/- 20%)

## Setting-up with Head ZCKD05

### Direction of Actuation Programming



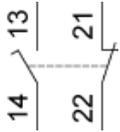
C : 1 Nm (+/- 20%) / 8.85 lb-in (+/- 20%)

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Wiring Diagram

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2-pole NC + NO Break Before Make, Slow Break

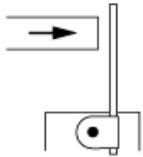


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## Characteristics of Actuation

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### Switch Actuation by Any Moving Part



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## Functionnal Diagram

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