

# XCKJ10511H7

Limit switch, XC Standard, XCKJ, thermoplastic roller lever, 1NC+1 NO, snap action, 1/2NPT



## Main

|                               |                                                 |
|-------------------------------|-------------------------------------------------|
| Range of Product              | Telemecanique Limit switches XC Standard        |
| Series name                   | Standard format                                 |
| Product or Component Type     | Limit switch                                    |
| Device short name             | XCKJ                                            |
| Sensor design                 | Form A CENELEC EN 50041                         |
| Body type                     | Fixed                                           |
| Head type                     | Rotary head                                     |
| Material                      | Metal                                           |
| Body Material                 | Zamak                                           |
| Head material                 | Zamak                                           |
| Fixing Mode                   | By the body                                     |
| Movement of operating head    | Rotary                                          |
| Type of operator              | Spring return roller lever thermoplastic        |
| Type of approach              | Lateral approach, 1 or 2 programmable direction |
| Cable entry                   | 1 entry tapped for 1/2" NPT cable gland         |
| 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 1 x 0.34...2 x 1.5 mm <sup>2</sup>                                                                                                                                                                                                         |
| Contacts insulation form                     | Zb                                                                                                                                                                                                                                                               |
| Number of steps                              | 1                                                                                                                                                                                                                                                                |
| Positive opening                             | With                                                                                                                                                                                                                                                             |
| Positive opening minimum torque              | 4.43 lbf.in (0.5 N.m)                                                                                                                                                                                                                                            |
| Minimum torque for tripping                  | 2.21 lbf.in (0.25 N.m)                                                                                                                                                                                                                                           |
| Maximum actuation speed                      | 4.92 ft/s (1.5 m/s)                                                                                                                                                                                                                                              |
| [Ie] rated operational current               | 3 A 240 V, AC-15, A300 EN/IEC 60947-5-1 appendix A<br>0.27 A 250 V, DC-13, Q300 EN/IEC 60947-5-1 appendix A                                                                                                                                                      |
| [Ithe] conventional enclosed thermal current | 10 A                                                                                                                                                                                                                                                             |
| [Ui] 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                                                                                                                                                                                                                                   |
| [Uimp] 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                        | 30000000 cycles                                                                                                                                                                                                                                                  |
| Width                                        | 1.57 in (40 mm)                                                                                                                                                                                                                                                  |
| Height                                       | 3.03 in (77 mm)                                                                                                                                                                                                                                                  |

|                               |                        |
|-------------------------------|------------------------|
| Depth                         | 1.73 in (44 mm)        |
| Product Weight                | 1.06 lb(US) (0.48 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               | IP66 conforming to IEC 60529                                                                                |
| IK degree of protection               | IK07 EN 50102                                                                                               |
| Overvoltage category                  | Class I IEC 61140<br>Class I 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                  | TH                                                                                                          |
| Product Certifications                | UL<br>CSA<br>CCC                                                                                            |
| Standards                             | EN 60947-5-1<br>EN 60204-1<br>CENELEC EN 50041<br>IEC 60204-1<br>CSA C22.2 No 14<br>UL 508<br>IEC 60947-5-1 |

## Ordering and shipping details

|                   |                               |
|-------------------|-------------------------------|
| Category          | 22411-LIMIT SWITCHES,IEC,XCKJ |
| Discount Schedule | T                             |
| GTIN              | 3389118120839                 |
| Returnability     | Yes                           |
| Country of origin | FR                            |

## Packing Units

|                              |                         |
|------------------------------|-------------------------|
| Unit Type of Package 1       | PCE                     |
| Number of Units in Package 1 | 1                       |
| Package 1 Height             | 1.65 in (4.2 cm)        |
| Package 1 Width              | 5.51 in (14.0 cm)       |
| Package 1 Length             | 3.07 in (7.8 cm)        |
| Package 1 Weight             | 16.79 oz (476.0 g)      |
| Unit Type of Package 2       | S02                     |
| Number of Units in Package 2 | 18                      |
| Package 2 Height             | 5.91 in (15.0 cm)       |
| Package 2 Width              | 11.81 in (30.0 cm)      |
| Package 2 Length             | 15.75 in (40.0 cm)      |
| Package 2 Weight             | 19.33 lb(US) (8.767 kg) |

## 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>                                                                                                                                                                                              |
| Mercury free              | Yes                                                                                                                                                                                                                                                                                                                                                                               |

|                            |                                                                                                                                 |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| RoHS exemption information |  Yes                                            |
| Environmental Disclosure   |  <a href="#">Product Environmental Profile</a> |

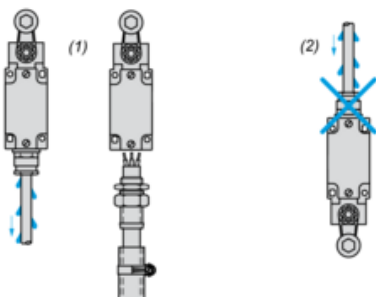
### Contractual warranty

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

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## Mounting with Cable Entry

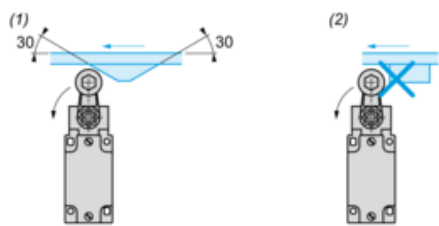
### Position of Cable Gland



- (1) Recommended  
(2) To be avoided

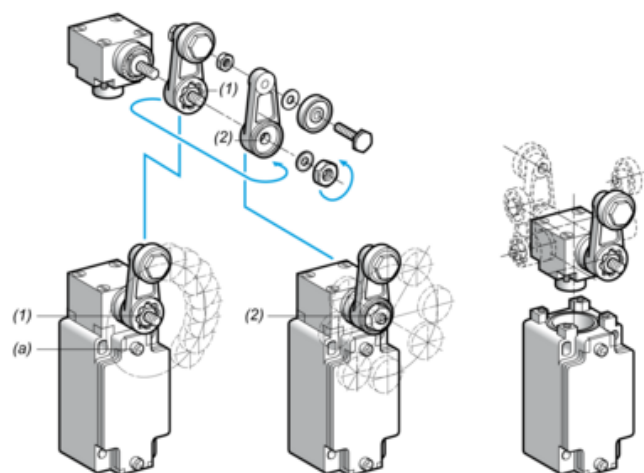
## Mounting with Rotary Heads and Levers

### Type of Cam



- (1) Recommended  
(2) To be avoided

## Setting-up with Lever Head



- (1) 5° steps throughout 360° / Tightening torque (Min : 1) (Max : 1.5)  
(2) 45° steps throughout 360° / Tightening torque (Min : 1) (Max : 1.5)  
(a) Tightening torque (Min : 1) (Max : 1.5)

## Setting-up with Head ZCKE05

## Direction of Actuation Programming

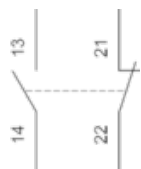


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Wiring Diagram

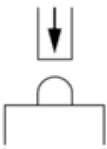
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2-pole NC + NO Snap Action

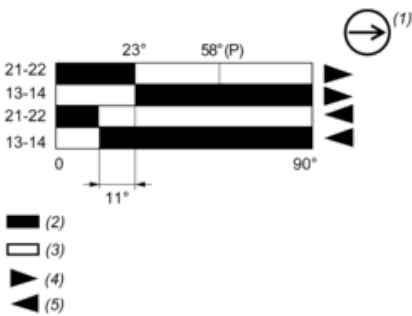


Characteristics of Actuation

Switch Actuation on End



Functionnal Diagram



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