

# XCKJ10541H7

Limit switch, XC Standard, XCKJ, thermoplastic plastic roller lever var length, 1NC+1 NO, snap, 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                 | -                                                        |
| 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 variable length |
| 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, clamping capacity: 1 x 0.34...2 x 1.5 mm <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                          |
| Contacts insulation form                     | Zb                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Number of steps                              | 1                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Positive opening                             | Without                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Minimum torque for tripping                  | 0.25 N.m                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Maximum actuation speed                      | 1.5 m/s                                                                                                                                                                                                                                                                                                                                                                                                                               |
| [Ie] rated operational current               | 3 A at 240 V, AC-15, A300 conforming to IEC 60947-5-1 appendix A<br>0.27 A at 250 V, DC-13, Q300 conforming to IEC 60947-5-1 appendix A                                                                                                                                                                                                                                                                                               |
| [Ithe] conventional enclosed thermal current | 10 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       | 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, inductive load type, 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, inductive load type, 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, inductive load type, 48 V, 7 W, operating rate <60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C |
| Mechanical durability                        | 30000000 cycles                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Width                                        | 40 mm                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Height                                       | 77 mm                                                                                                                                                                                                                                                                                                                                                                                                                                 |

|                               |                        |
|-------------------------------|------------------------|
| Depth                         | 44 mm                  |
| Net weight                    | 0.485 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                                                                                  |
| IK degree of protection               | IK07 conforming to IEC 62262                                                                                  |
| Overvoltage category                  | Class I conforming to IEC 61140<br>Class I conforming to NF C 20-030                                          |
| Ambient air temperature for operation | -25...70 °C                                                                                                   |
| Ambient air temperature for storage   | -40...70 °C                                                                                                   |
| Protective treatment                  | TH                                                                                                            |
| Product certifications                | CSA[RETURN]UL[RETURN]CCC                                                                                      |
| Standards                             | CSA C22.2 No 14<br>IEC 60947-5-1<br>IEC 60204-1<br>CENELEC EN 50041<br>IEC 60204-1<br>IEC 60947-5-1<br>UL 508 |

## Packing Units

|                              |           |
|------------------------------|-----------|
| Unit Type of Package 1       | PCE       |
| Number of Units in Package 1 | 1         |
| Package 1 Height             | 4.300 cm  |
| Package 1 Width              | 7.000 cm  |
| Package 1 Length             | 12.700 cm |
| Package 1 Weight             | 478.000 g |
| Unit Type of Package 2       | S02       |
| Number of Units in Package 2 | 18        |
| Package 2 Height             | 15.000 cm |
| Package 2 Width              | 30.000 cm |
| Package 2 Length             | 40.000 cm |
| Package 2 Weight             | 9.134 kg  |

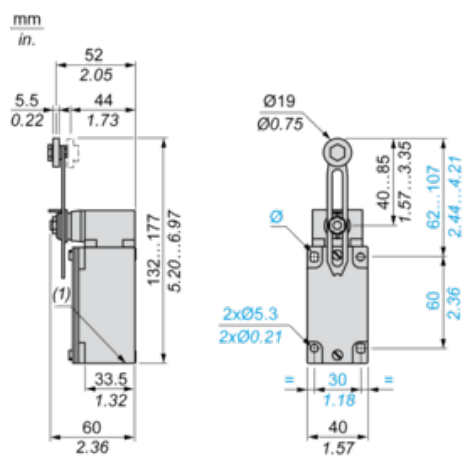
## Offer Sustainability

|                                            |                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status                   | Green Premium product                                                                                                                                                                                                                                                                                                                                                             |
| Circularity Profile                        | No need of specific recycling operations                                                                                                                                                                                                                                                                                                                                          |
| 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> |
| For all Reach Rohs enquiries contact us at | <a href="mailto:sustainability@tesensors.com">sustainability@tesensors.com</a>                                                                                                                                                                                                                                                                                                    |

## Contractual warranty

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

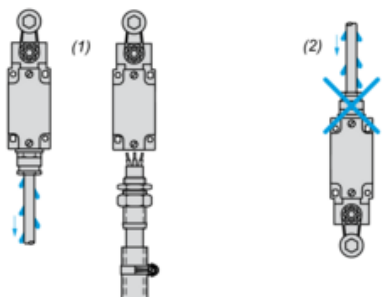
## Dimensions



(1) 1 tapped entry 1/2" NPT

## Mounting with Cable Entry

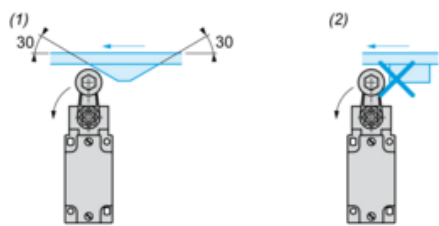
### Position of Cable Gland



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

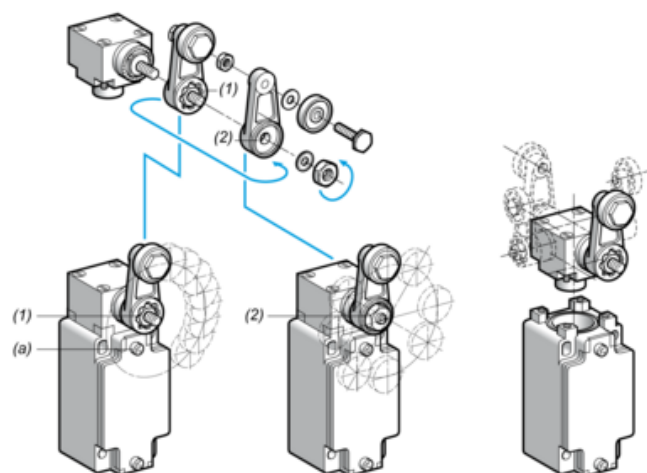
## Mounting with Rotary Heads and Levers

### 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

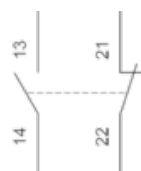


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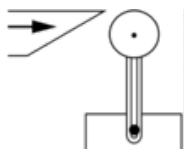
Wiring Diagram

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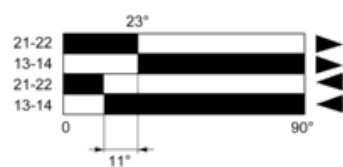
2-pole NC + NO Snap Action



### Switch Actuation by 30° Cam



## Functionnal Diagram



-  (1)  
 (2)  
 (3)  
 (4)

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