

# XCKJ105H7

limit switch XCKJ - rotary head w/o op. lever -  
1NC+1NO - 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                 | -                                               |
| 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 without operating lever           |
| 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

|                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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                             | With                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Positive opening minimum torque              | 0.5 N.m                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Minimum torque for tripping                  | 0.25 N.m                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| [Ie] rated operational current               | 3 A at 240 V, AC-15, A300 conforming to EN/IEC 60947-5-1 appendix A<br>0.27 A at 250 V, DC-13, Q300 conforming to EN/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 IEC 60664<br>6 kV 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/<br>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/<br>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/<br>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                  |
| 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 EN 50102                                                                                 |
| 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                  | TC                                                                                                          |
| Product certifications                | CCC<br>UL<br>CSA                                                                                            |
| Standards                             | EN 60947-5-1<br>IEC 60204-1<br>CSA C22.2 No 14<br>IEC 60947-5-1<br>EN 60204-1<br>CENELEC EN 50041<br>UL 508 |

## Packing Units

|                  |          |
|------------------|----------|
| Package 1 Weight | 0.455 kg |
| Package 1 Height | 0.010 dm |
| Package 1 width  | 0.010 dm |
| Package 1 Length | 0.020 dm |

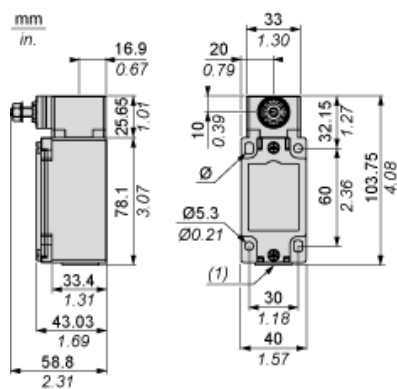
## Offer Sustainability

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

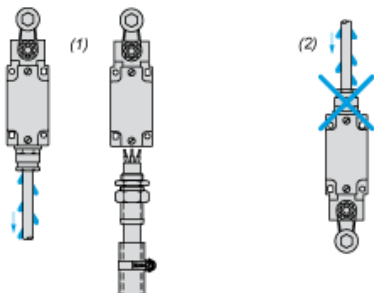
## Dimensions



- (1) 1 tapped entry 1/2" NPT  
Ø : 2 elongated holes Ø 5.3 x 7.3.

## Mounting with Cable Entry

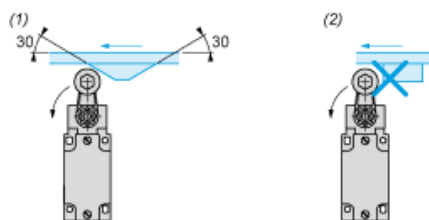
### Position of Cable Gland



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

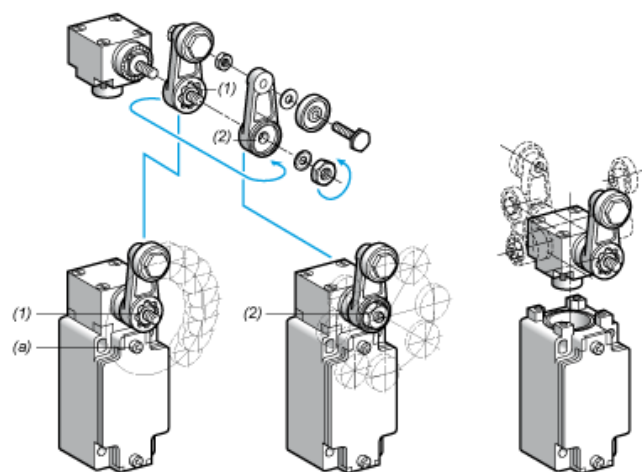
## Mounting with Rotary Heads and Levers

### Type of Cam



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

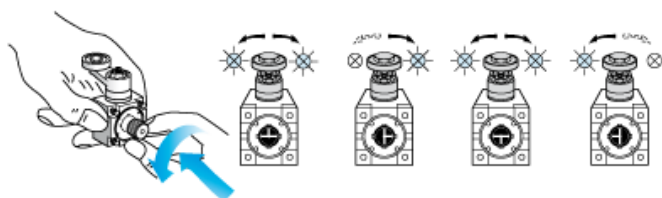
## Setting-up with Lever Head



- (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

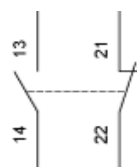


---

## Wiring Diagram

---

2-pole NC + NO Snap Action

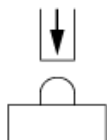


---

## Characteristics of Actuation

---

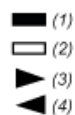
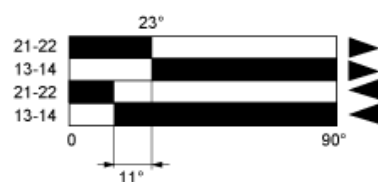
### Switch Actuation on End



---

## Functionnal Diagram

---



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