

# XCKJ50513H29

limit switch XCKJ - steel roller lever - 1NC  
+1NO - slow-break - M20



## 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 conforming to 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 metal                                          |
| Type of approach              | Lateral approach, 1 or 2 programmable direction                           |
| Cable entry                   | 1 entry tapped for M20 x 1.5 cable gland, cable outer diameter: 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 30° cam                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Electrical connection                        | Screw-clamp terminals, clamping capacity: 1 x 0.5...2 x 2.5 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                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Minimum actuation speed                      | 6 m/min                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Maximum actuation speed                      | 1.5 m/s                                                                                                                                                                                                                                                                                                                                                                                                                               |
| [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/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                    | 0.49 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                                                                                |
| 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                | CSA<br>UL<br>CCC                                                                                            |
| Standards                             | IEC 60947-5-1<br>UL 508<br>EN 60947-5-1<br>CENELEC EN 50041<br>EN 60204-1<br>IEC 60204-1<br>CSA C22.2 No 14 |

## Packing Units

|                  |          |
|------------------|----------|
| Package 1 Weight | 0.505 kg |
| Package 1 Height | 0.430 dm |
| Package 1 width  | 0.690 dm |
| Package 1 Length | 1.300 dm |

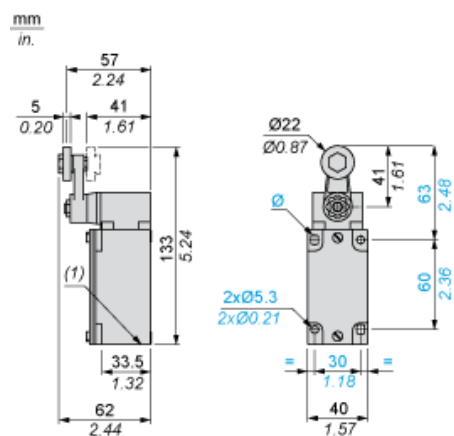
## Offer Sustainability

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

## Contractual warranty

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

## Dimensions



(1) 1 tapped entry M20 x 1.5

## 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

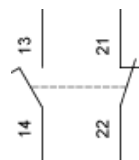


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## Wiring Diagram

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



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## Characteristics of Actuation

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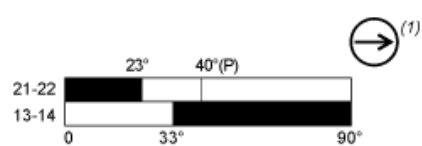
### Switch Actuation on End



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## Functionnal Diagram

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■ (2)

□ (3)

(P) Positive opening point

(1) NC contact with positive opening operation

(2) Closed

(3) Open