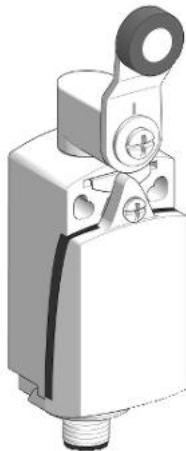


Limit switch, Limit switches XC Standard,
XCKD, thermoplastic roller lever, 1NC+1 NO,
snap, M12



Main

| | |
|-------------------------------|---|
| Range of product | Telemecanique Limit switches XC Standard |
| Series name | Standard format |
| Product or component type | Limit switch |
| Device short name | XCKD |
| Sensor design | Compact form A conforming to CENELEC EN 50047 |
| 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, 2 directions |
| Number of poles | 2 |
| Contacts type and composition | 1 NC + 1 NO |
| Contact operation | Snap action |

Complementary

| | |
|--|---|
| Tracks | 24/40 mm |
| Switch actuation | By 30° cam |
| Electrical connection | Male connector M12, 5 pins |
| Contacts insulation form | Zb |
| Positive opening | With |
| Positive opening minimum torque | 0.25 N.m |
| Minimum torque for tripping | 0.1 N.m |
| Maximum actuation speed | 1.5 m/s |
| Repeat accuracy | 0.1 mm on the tripping points with 1 million operating cycles |
| [Ie] rated operational current | 3 A at 50 V, AC-15 conforming to IEC 60947-5-1 appendix A 0.27 A at 50 V, DC-13 conforming to IEC 60947-5-1 appendix A |
| [Ithe] conventional enclosed thermal current | 4 A |
| [Ui] rated insulation voltage | 60 V (pollution degree 3) conforming to IEC 60947-1 |
| Maximum resistance across terminals | 25 MΩ conforming to IEC 60255-7 category 3 |
| [Uimp] rated impulse withstand voltage | 0.8 kV conforming to IEC 60664 0.8 kV conforming to IEC 60947-1 |
| Short-circuit protection | 4 A cartridge fuse, type gG |
| Electrical durability | 5000000 Cycles, DC-13, 24 V, 10 W, operating rate <60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C 5000000 cycles, DC-13, 48 V, 7 W, operating rate <60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C |
| Mechanical durability | 10000000 cycles |
| Width | 31 mm |
| Height | 65 mm |
| Depth | 30 mm |

| | |
|-------------------------------|------------------------|
| Net weight | 0.22 kg |
| Terminals description ISO n°1 | (13-14)NO (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 |
| IK degree of protection | IK06 conforming to IEC 62262 |
| Electrical shock protection class | Class I conforming to IEC 61140 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 | UL[RETURN]CSA[RETURN]CCC |
| Standards | UL 508 IEC 60947-5-1 IEC 60947-5-1 IEC 60204-1 CSA C22.2 No 14 IEC 60204-1 |

Packing Units

| | |
|------------------------------|-----------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 3.500 cm |
| Package 1 Width | 4.800 cm |
| Package 1 Length | 12.800 cm |
| Package 1 Weight | 211.000 g |
| Unit Type of Package 2 | S01 |
| Number of Units in Package 2 | 21 |
| Package 2 Height | 15.000 cm |
| Package 2 Width | 15.000 cm |
| Package 2 Length | 40.000 cm |
| Package 2 Weight | 4.723 kg |

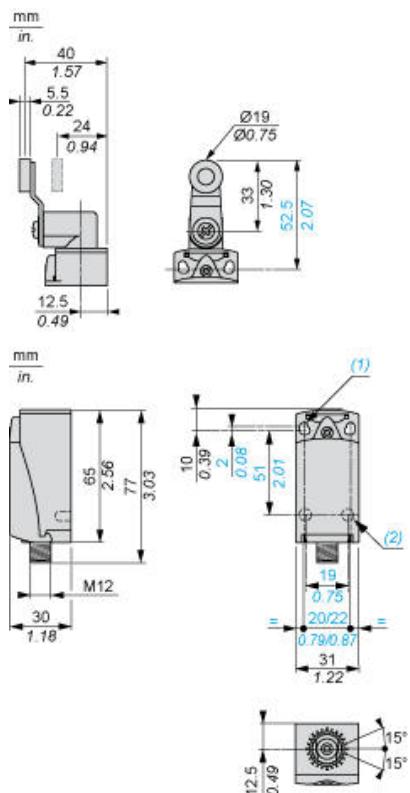
Offer Sustainability

| | |
|--|---|
| 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: Diisobutyl 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 www.P65Warnings.ca.gov |
| For all Reach Rohs enquiries contact us at | sustainability@tesensors.com |

Contractual warranty

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

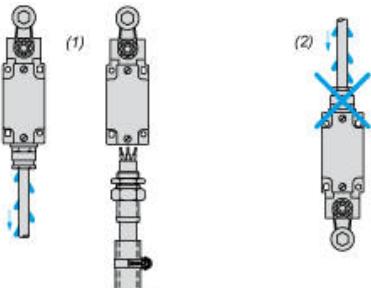
Dimensions



(1) 2 elongated holes Ø 4.3 x 6.3 mm on 22 mm centres, 2 holes Ø 4.3 on 20 mm centres.
 (2) 2 x Ø 3 holes for support studs, depth 4 mm.

Mounting with Cable Entry

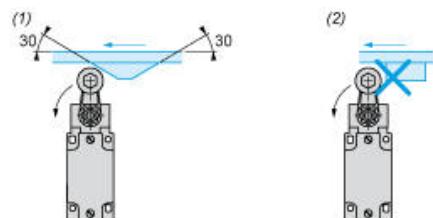
Position of Cable Gland



(1) Recommended
(2) To be avoided

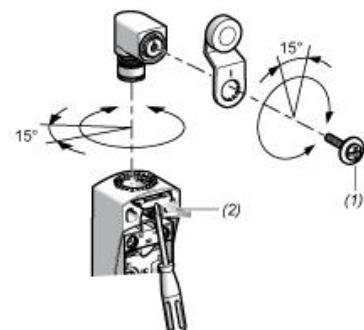
Mounting with Rotary Heads and Levers

Type of Cam



(1) Recommended
(2) To be avoided

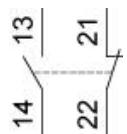
Setting-up with Head ZCE01 and ZCE09



(1) Tightening torque (Min : 1) (Max : 1.5)
(2) Tightening torque (Min : 0.8) (Max : 1.2)

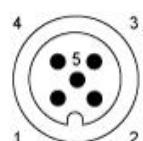
Wiring Diagram

2-pole NC + NO Snap Action



Connections

M12 Connector



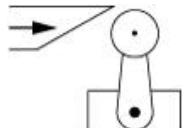
1-2 : NC

3-4 : NO

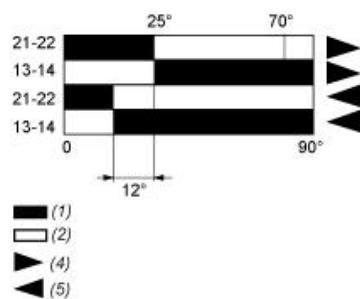
5 : Grounding

Characteristics of Actuation

Switch Actuation by 30° Cam



Functional Diagram



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