# Product data sheet
## Characteristics

# XCKM506H29
## Limit switch, Limit switches XC Standard, XCKM, cats whisker, 1NC+1 NO, 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 | XCKM |
| Body type | Fixed |
| Head type | Multi-directional head |
| Material | Metal |
| Body material | Zamak |
| Fixing mode | By the body |
| Movement of operating head | Multi-directional |
| Type of operator | Spring return cat"s whisker |
| Type of approach | Multi-directional approach |
| Cable entry | 3 entries 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 any moving part |
| Electrical connection | Screw-clamp terminals, clamping capacity: 1 x 0.5...2 x 2.5 mm² |
| Contacts insulation form | Zb |
| Number of steps | 1 |
| Positive opening | Without |
| Minimum torque for tripping | 0.13 N.m |
| Minimum actuation speed | 6 m/min |
| Maximum actuation speed | 1 m/s |
| Contact code designation | A300, AC-15 (Ue = 240 V), Ie = 3 A conforming to EN/IEC 60947-5-1 appendix A<br>Q300, DC-13 (Ue = 250 V), Ie = 0.27 A conforming to EN/IEC 60947-5-1 appendix A |
| [Ithe] conventional enclosed thermal current | 10 A AC |
| [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, 7 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, 10 W, operating rate <60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C |
| Mechanical durability | 10000000 cycles |
| Width | 64 mm |
| Height | 64 mm |

| | |
|---|---|
| Depth | 30 mm |
| Net weight | 0.25 kg |
| Terminals description ISO n°1 | (21-22)NC<br>(13-14)NO |

## Environment

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|---|---|
| Shock resistance | 50 gn for 11 ms conforming to EN/IEC 60068-2-27 |
| Vibration resistance | 25 gn (f= 10…500 Hz) conforming to EN/IEC 60068-2-6 |
| IP degree of protection | IP66 conforming to EN/IEC 60529 |
| IK degree of protection | IK05 conforming to EN 50102 |
| Electrical shock protection class | 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[RETURN]UL[RETURN]CSA |
| Standards | IEC 60947-5-1<br>IEC 60204-1<br>EN 60204-1<br>EN 60947-5-1<br>UL 508<br>CSA C22.2 No 14 |

## Packing Units

| | |
|---|---|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 22.0 cm |
| Package 1 Width | 3.2 cm |
| Package 1 Length | 6.4 cm |
| Package 1 Weight | 265.0 g |

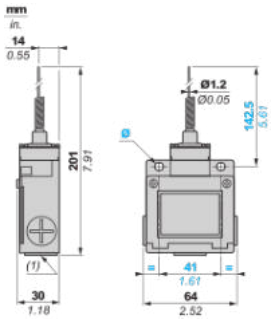
## Offer Sustainability

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

## Contractual warranty

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

## Dimensions

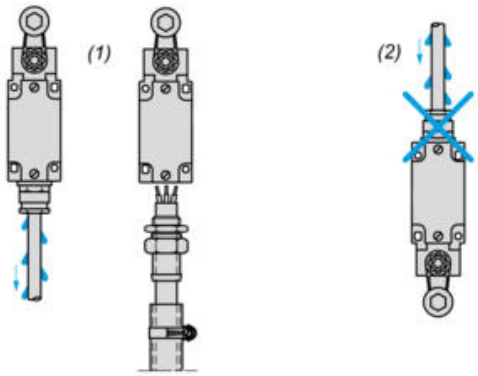



(1) 3 tapped entries M20 x 1.5

Ø : 2 elongated holes Ø 5.2 x 6.2

## Mounting with Cable Entry

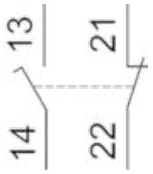
### Position of Cable Gland




(1) Recommended
(2) To be avoided

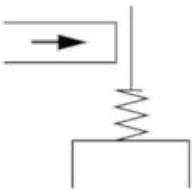
## Wiring Diagram

### 2-pole N/C + N/O Break before Make, Slow Break

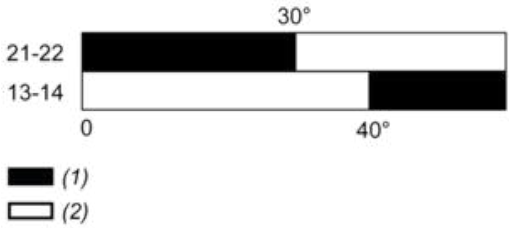


## Characteristics of Actuation

### Switch Actuation by Any Moving Part



## Functionnal Diagram




(1) Closed
(2) Open