

Product data sheet

Characteristics

XCKL102H7

Limit switch, Limit switches XC Standard, XCKL, steel roller plunger, 1NC+1 NO, snap action, 1/2NPT



Main

| | |
|-------------------------------|--|
| Range of Product | Telemecanique Limit switches XC Standard |
| Series name | Standard format |
| Product or Component | Limit switch |
| Type | |
| Device short name | XCKL |
| Body type | Fixed |
| Head type | Plunger head |
| Material | Metal |
| Body Material | Zamak |
| Fixing Mode | By the body |
| Movement of operating head | Linear |
| Type of operator | Spring return roller plunger metal |
| Type of approach | Lateral approach, 2 directions |
| 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 1 x 0.34...2 x 1.5 mm ² |
| Contacts insulation form | Zb |
| Number of steps | 1 |
| Positive opening | With |
| Positive opening minimum force | 36 N |
| Minimum force for tripping | 12 N |
| Minimum actuation speed | 0.01 m/min |
| Maximum actuation speed | 1.64 ft/s (0.5 m/s) |
| Contact code designation | A300, AC-15 (Ue = 240 V), Ie = 3 A EN/IEC 60947-5-1 appendix A Q300, DC-13 (Ue = 250 V), Ie = 0.27 A EN/IEC 60947-5-1 appendix A |
| [Ithe] conventional enclosed thermal current | 10 A AC |
| [Ui] rated insulation voltage | 300 VUL 508 500 V 3)IEC 60947-1 300 VCSA C22.2 No 14 |
| Maximum resistance across terminals | 25 MOhm IEC 60255-7 category 3 |
| [Uimp] rated impulse withstand voltage | 6 KV IEC 60664 6 kV IEC 60947-1 |
| Short-circuit protection | 10 A cartridge fuse gG |
| Electrical durability | 5000000 Cycles, DC-13, inductive, 120 V, 4 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C 5000000 Cycles, DC-13, inductive, 24 V, 7 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C 5000000 cycles, DC-13, inductive, 48 V, 10 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C |
| Mechanical durability | 20000000 cycles |
| Width | 2.05 in (52 mm) |
| Height | 2.83 in (72 mm) |

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|-------------------------------|------------------------|
| Depth | 1.18 in (30 mm) |
| Terminals description ISO n°1 | (21-22)NC (13-14)NO |

Environment

| | |
|---------------------------------------|---|
| Shock resistance | 50 gn 11 ms EN/IEC 60068-2-27 |
| Vibration resistance | 25 gn 10...500 Hz)EN/IEC 60068-2-6 |
| IP degree of protection | IP66 conforming to EN/IEC 60529 |
| IK degree of protection | IK05 EN 50102 |
| Electrical shock protection class | Class I IEC 61140 Class I NF C 20-030 |
| Ambient Air Temperature for Operation | -13...158 °F (-25...70 °C) |
| Ambient Air Temperature for Storage | -40...158 °F (-40...70 °C) |
| Protective treatment | TC |
| Product Certifications | UL CSA |
| Standards | EN 60947-5-1 IEC 60204-1 IEC 60947-5-1 CSA C22.2 No 14 EN 60204-1 UL 508 |

Ordering and shipping details

| | |
|-------------------|-------------------------------|
| Category | 22416-LIMIT SWITCHES,IEC,XCKL |
| Discount Schedule | T |
| GTIN | 3389110354683 |
| Returnability | Yes |
| Country of origin | FR |

Packing Units

| | |
|------------------------------|-------------------------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 1.30 in (3.300 cm) |
| Package 1 Width | 2.56 in (6.500 cm) |
| Package 1 Length | 5.75 in (14.600 cm) |
| Package 1 Weight | 8.78 oz (249.000 g) |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 32 |
| Package 2 Height | 5.91 in (15.000 cm) |
| Package 2 Width | 11.81 in (30.000 cm) |
| Package 2 Length | 15.75 in (40.000 cm) |
| Package 2 Weight | 17.65 lb(US) (8.005 kg) |

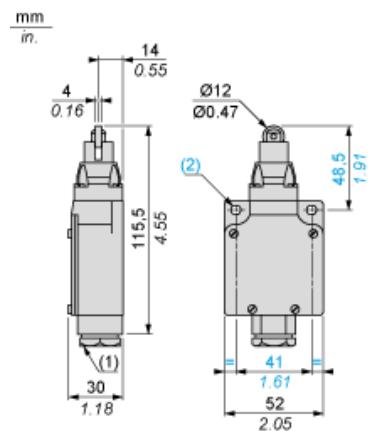
Offer Sustainability

| | |
|----------------------------|---|
| Sustainable offer status | Green Premium product |
| 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 |
| REACH Regulation |  REACH Declaration |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope)  EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information |  Yes |
| Environmental Disclosure |  Product Environmental Profile |

Contractual warranty

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

Dimensions

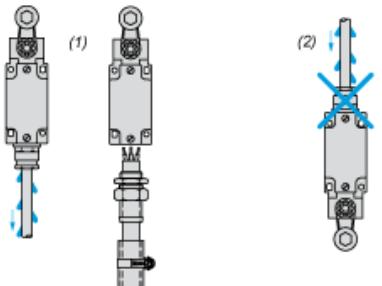


(1) 1/2" NPT

Ø : 2 elongated holes Ø 5.2 x 6.2

Mounting with Cable Entry

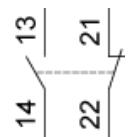
Position of Cable Gland



- (1) Recommended
(2) To be avoided

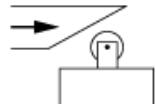
Wiring Diagram

2-pole NC + NO Snap Action

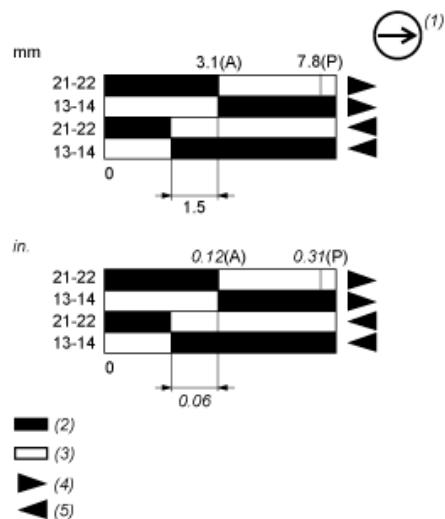


Characteristics of Actuation

Switch Actuation by 30° Cam



Functional Diagram



- (P) Positive opening point
- (A) Cam displacement
- (1) NC contact with positive opening operation
- (2) Closed
- (3) Open
- (4) Tripping
- (5) Resetting