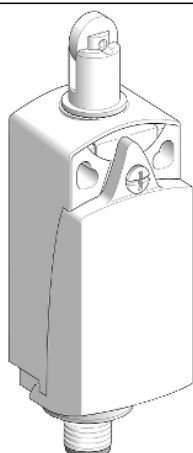


XCKP2102M12

Limit switch, Limit switches XC Standard, XCKP, steel roller plunger, 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 | XCKP |
| Sensor design | Compact form C CENELEC EN 50047 |
| Body type | Fixed |
| Head type | Plunger head |
| Material | Plastic |
| Body material | Plastic |
| Head 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 |
| Number of poles | 2 |
| Contacts type and composition | 1 NC + 1 NO |
| Contact operation | Snap action |

Complementary

| | |
|--|---|
| Switch actuation | By 30° cam |
| Electrical connection | Male connector M12, 4 pins |
| Contacts insulation form | Zb |
| Positive opening | With |
| Positive opening minimum force | 36 N |
| Minimum force for tripping | 12 N |
| Maximum actuation speed | 1.64 ft/s (0.5 m/s) |
| Repeat accuracy | 0.1 mm on the tripping points with 1 million operating cycles |
| [Ie] rated operational current | 3 A 240 V, AC-15 IEC 60947-5-1 appendix A 0.27 A 250 V, DC-13 IEC 60947-5-1 appendix A |
| [Ithe] conventional enclosed thermal current | 3 A |
| [Ui] rated insulation voltage | 300 VUL 508 300 VCSA C22.2 No 14 250 V 3)IEC 60947-1 |
| Maximum resistance across terminals | 25 MOhm IEC 60255-7 category 3 |
| [Uimp] rated impulse withstand voltage | 2.5 kV IEC 60664 2.5 kV IEC 60947-1 |
| Short-circuit protection | 4 A cartridge fuse gG |
| Electrical durability | 5000000 Cycles, DC-13, 120 V, 4 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C 5000000 Cycles, DC-13, 24 V, 10 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C 5000000 cycles, DC-13, 48 V, 7 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C |
| Mechanical durability | 15000000 cycles |
| Width | 1.22 in (31 mm) |
| Height | 2.56 in (65 mm) |
| Depth | 1.18 in (30 mm) |

| | |
|-------------------------------|------------------------|
| Net Weight | 0.22 lb(US) (0.1 kg) |
| Terminals description ISO n°1 | (21-22)NC (13-14)NO |

Environment

| | |
|---------------------------------------|---|
| Shock resistance | 50 gn 11 ms IEC 60068-2-27 |
| Vibration resistance | 25 gn 10...500 Hz)IEC 60068-2-6 |
| IP degree of protection | IP66 conforming to IEC 60529 IP67 conforming to IEC 60529 |
| IK degree of protection | IK04 conforming to IEC 62262 |
| Electrical shock protection class | Class II IEC 61140 Class II 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 | CCC[RETURN]CSA[RETURN]UL |
| Standards | IEC 60204-1 IEC 60204-1 CSA C22.2 No 14 UL 508 IEC 60947-5-1 IEC 60947-5-1 |

Ordering and shipping details

| | |
|-------------------|---------------|
| Category | US1000T22418 |
| Discount Schedule | 000T |
| GTIN | 3389110202069 |
| Returnability | No |
| Country of origin | US |

Packing Units

| | |
|------------------------------|-------------------------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 1.38 in (3.500 cm) |
| Package 1 Width | 1.57 in (4.000 cm) |
| Package 1 Length | 3.94 in (10.000 cm) |
| Package 1 Weight | 2.93 oz (83.000 g) |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 77 |
| 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 | 15.34 lb(US) (6.959 kg) |

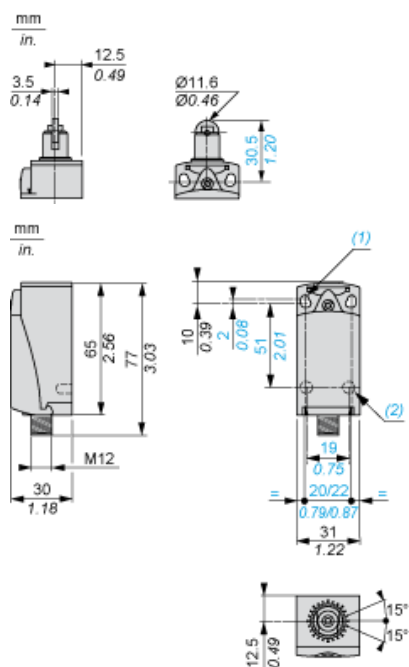
Offer Sustainability

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

Setting-up

Plunger or Multi-directional Heads



Wiring Diagram

2-pole NC + NO Snap Action



Connections

M12 Connector



1-2 : NC
3-4 : NO

Characteristics of Actuation

Switch Actuation by 30° Cam



Functionnal Diagram



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