# XCKP2111M12
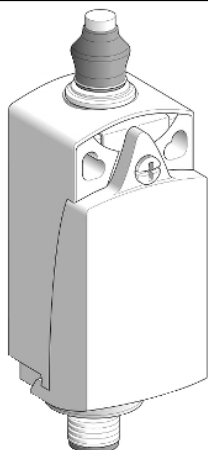
Limit switch, Limit switches XC Standard, XCKP, metal end plunger with nitrile boot, 1NC +1 NO, snap, M12

Green Premium Product

## 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 |
| 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 with nitrile boot |
| Type of approach | Vertical approach, 1 direction |
| Number of poles | 2 |
| Contacts type and composition | 1 NC + 1 NO |
| Contact operation | Snap action |

## Complementary

| | |
|---|---|
| Switch actuation | On end |
| Electrical connection | Male connector M12, 4 pins |
| Contacts insulation form | Zb |
| Positive opening | With |
| Positive opening minimum force | 45 N |
| Minimum force for tripping | 15 N |
| Minimum actuation speed | 0.01 m/min |
| 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 EN/IEC 60947-5-1 appendix A<br>0.27 A 250 V, DC-13 EN/IEC 60947-5-1 appendix A |
| [Ithe] conventional enclosed thermal current | 3 A |
| [Ui] rated insulation voltage | 300 VUL 508<br>300 VCSA C22.2 No 14<br>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<br>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<br>5000000 Cycles, DC-13, 24 V, 10 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C<br>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 | (13-14)NO<br>(21-22)NC |

## 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<br>IP67 conforming to IEC 60529 |
| IK degree of protection | IK04 EN 50102 |
| Electrical shock protection class | Class II IEC 61140<br>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<br>UL<br>CSA |
| Standards | CSA C22.2 No 14<br>EN 60947-5-1<br>IEC 60204-1<br>IEC 60947-5-1<br>UL 508<br>EN 60204-1 |

## Ordering and shipping details

| | |
|---|---|
| Category | 22418-LIMIT SWITCH,IEC,XCKP&XCKT |
| Discount Schedule | T |
| GTIN | 3389110202045 |
| Nbr. of units in pkg. | 1 |
| Package weight(Lbs) | 2.89 oz (82.0 g) |
| Returnability | No |
| Country of origin | FR |

## Packing Units

| | |
|---|---|
| Unit Type of Package 1 | PCE |
| Package 1 Height | 4.13 in (10.5 cm) |
| Package 1 width | 1.73 in (4.4 cm) |
| Package 1 Length | 1.30 in (3.3 cm) |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 66 |
| Package 2 Weight | 12.93 lb(US) (5.867 kg) |
| Package 2 Height | 5.91 in (15 cm) |
| Package 2 width | 11.81 in (30 cm) |
| Package 2 Length | 15.75 in (40 cm) |

## 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 |
| 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 |

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| Environmental Disclosure | [↗] Product Environmental Profile |
|---|---|
| Circularity Profile | [↗] End Of Life Information |

## Contractual warranty

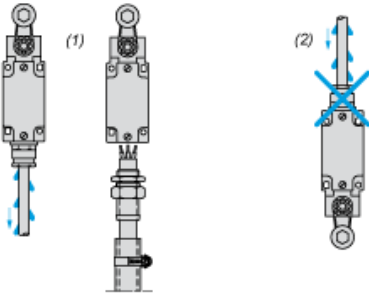| Warranty | 18 months |
|---|---|

## XCKP2111M12

## Dimensions
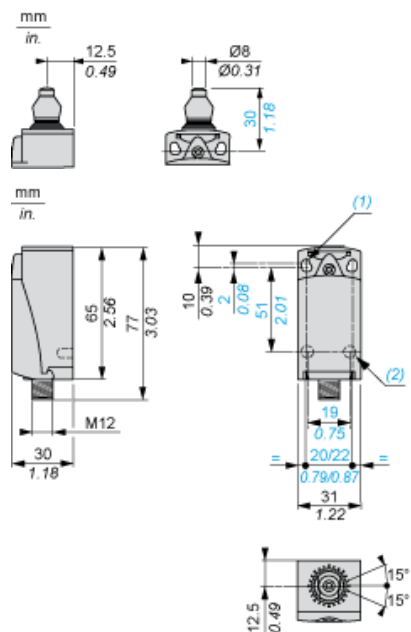


(1)  2 elongated holes Ø 4.3 x 6.3 mm on 22 mm centres, 2 holes Ø 4.3 on 20 mm centres.
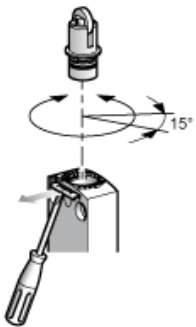(2)  2 x Ø 3 holes for support studs, depth 4 mm.

## Mounting with Cable Entry

### Position of Cable Gland



(1)    Recommended
(2)    To be avoided

## Setting-up

### Plunger or Multi-directional Heads

XCKP2111M12

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## Wiring Diagram

### 2-pole NC + NO Snap Action

13  21
14  22

## Connections

### M12 Connector

4 — 3
1 — 2

1-2 : NC
3-4 : NO

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## Characteristics of Actuation

### Switch Actuation on End
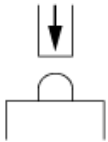
### Functionnal Diagram

| | | mm | |
|---|---|---|---|
| | 1.8 | 4.6(P) | |

| | | in. | |
|---|---|---|---|
| | 0.07 | 0.18(P) | |

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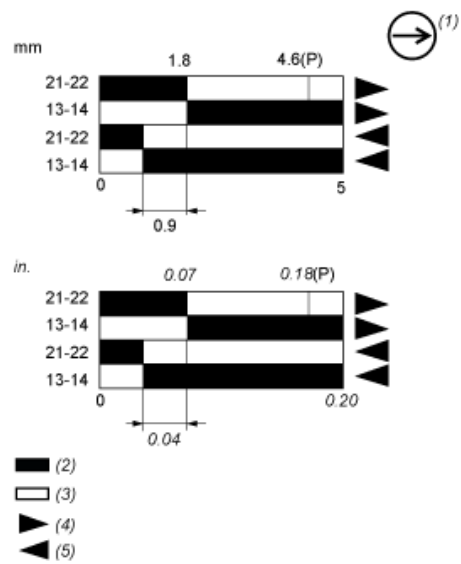
(P) Positive opening point
(1) NC contact with positive opening operation
(2) Closed
(3) Open
(4) Tripping
(5) Resetting