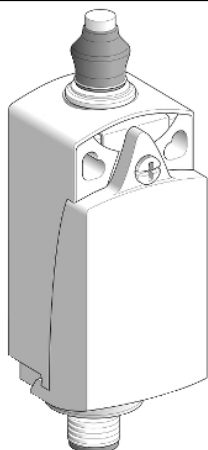


# XCKP2111M12

Limit switch, Limit switches XC Standard, XCKP, metal end plunger with nitrile boot, 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                                              |
| 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 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

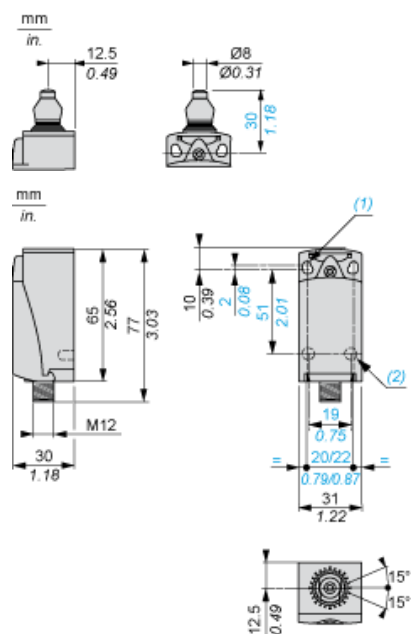
|                            |                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| REACH Regulation           |  <a href="#">REACH Declaration</a>                                                                                                                                                                                                                                                             |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope)  <a href="#">EU RoHS Declaration</a>                                                                                                                                                                                              |
| Mercury free               | Yes                                                                                                                                                                                                                                                                                                                                                                               |
| RoHS exemption information |  <a href="#">Yes</a>                                                                                                                                                                                                                                                                           |

|                          |                                                                                                                                |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Environmental Disclosure | <a href="#"> Product Environmental Profile</a> |
| Circularity Profile      | <a href="#"> End Of Life Information</a>      |

Contractual warranty

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

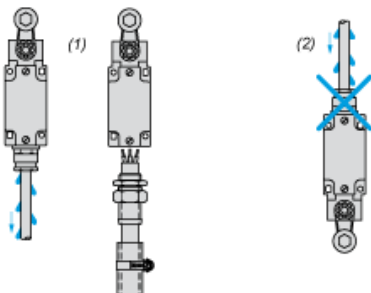
## Dimensions



- (1) 2 elongated holes  $\varnothing 4.3 \times 6.3$  mm on 22 mm centres, 2 holes  $\varnothing 4.3$  on 20 mm centres.
- (2) 2  $\times \varnothing 3$  holes for support studs, depth 4 mm.

## Mounting with Cable Entry

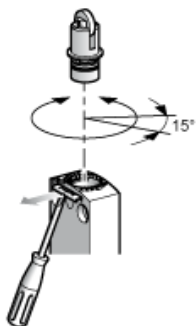
### Position of Cable Gland



- (1) Recommended
- (2) To be avoided

## Setting-up

### Plunger or Multi-directional Heads

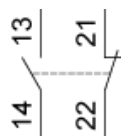


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## Wiring Diagram

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2-pole NC + NO Snap Action

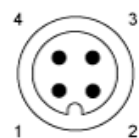


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## Connections

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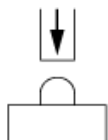
M12 Connector



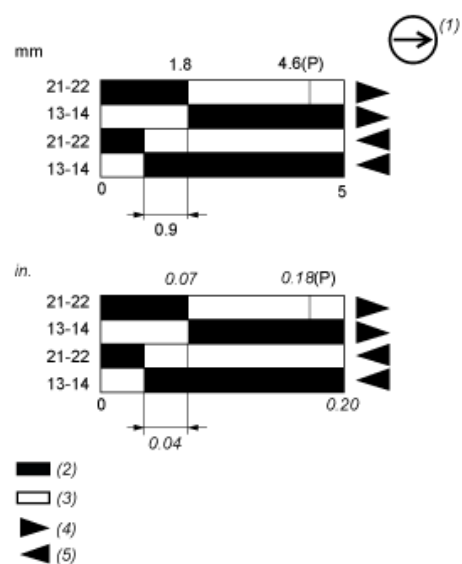
1-2 : NC  
3-4 : NO

## Characteristics of Actuation

### Switch Actuation on End



## Functionnal Diagram



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

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