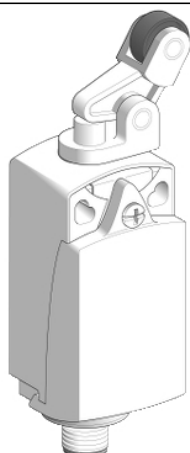


# XCKP2127M12

Limit switch, Limit switches XC Standard, XCKP, thermoplastic roller lever plung. Ver, 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 lever plunger thermoplastic |
| 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                             | By 30° cam   |
| Electrical connection                        | Male connector M12, 4 pins   |
| Contacts insulation form                     | Zb   |
| Positive opening                             | With   |
| Positive opening minimum force               | 18 N   |
| Minimum force for tripping                   | 6 N  |
| Maximum actuation speed                      | 1 m/s  |
| Repeat accuracy                              | 0.1 mm on the tripping points with 1 million operating cycles  |
| [Ie] rated operational current               | 3 A at 240 V, AC-15 conforming to IEC 60947-5-1 appendix A<br>0.27 A at 250 V, DC-13 conforming to IEC 60947-5-1 appendix A  |
| [Ithe] conventional enclosed thermal current | 3 A  |
| [Ui] rated insulation voltage                | 300 V conforming to UL 508<br>300 V conforming to CSA C22.2 No 14<br>250 V (pollution degree 3) conforming to IEC 60947-1  |
| Maximum resistance across terminals          | 25 MOhm conforming to IEC 60255-7 category 3   |
| [Uimp] rated impulse withstand voltage       | 2.5 kV conforming to IEC 60664<br>2.5 kV conforming to IEC 60947-1   |
| Short-circuit protection                     | 4 A cartridge fuse, type gG  |
| Electrical durability                        | 5000000 Cycles, DC-13, 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, 24 V, 10 W, operating rate <60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C<br>5000000 cycles, DC-13, 48 V, 7 W, operating rate <60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C |
| Mechanical durability                        | 15000000 cycles  |
| Width  | 31 mm  |
| Height                                       | 65 mm  |

|                               |                        |
|-------------------------------|------------------------|
| Depth                         | 30 mm                  |
| Net weight                    | 0.11 kg                |
| Terminals description ISO n°1 | (21-22)NC<br>(13-14)NO |

## Environment

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

## Packing Units

|                              |          |
|------------------------------|----------|
| Unit Type of Package 1       | PCE      |
| Number of Units in Package 1 | 1        |
| Package 1 Height             | 3.4 cm   |
| Package 1 Width              | 5.0 cm   |
| Package 1 Length             | 13.2 cm  |
| Package 1 Weight             | 96.0 g   |
| Unit Type of Package 2       | S01      |
| Number of Units in Package 2 | 21       |
| Package 2 Height             | 15.0 cm  |
| Package 2 Width              | 15.0 cm  |
| Package 2 Length             | 40.0 cm  |
| Package 2 Weight             | 2.241 kg |

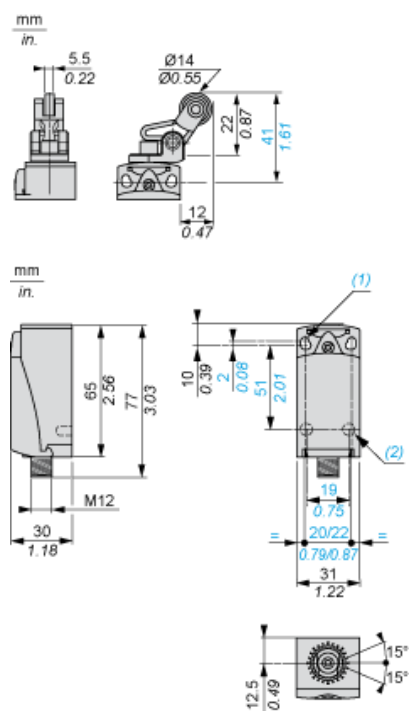
## Offer Sustainability

|  |  |
|--|--|
| 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 Diisodecyl 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> |
| For all Reach Rohs enquiries contact us at | <a href="mailto:sustainability@tesensors.com">sustainability@tesensors.com</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 x  $\varnothing 3$  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

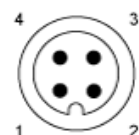


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## Connections

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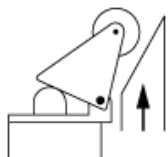
M12 Connector



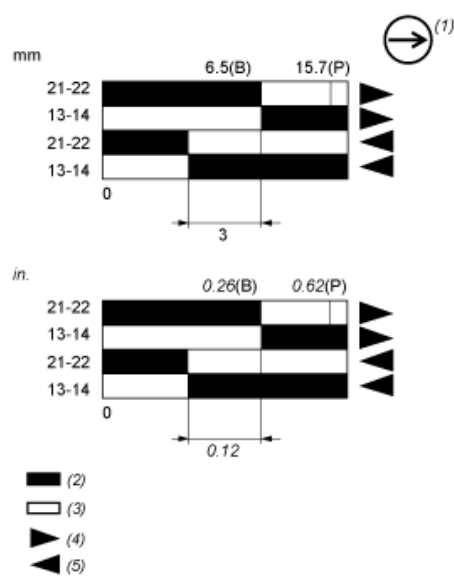
1-2 : NC  
3-4 : NO

## Characteristics of Actuation

### Switch Actuation by 30° Cam



## Functionnal Diagram



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