

# XCKM121

Limit switch, Limit switches XC Standard, XCKM, thermoplastic roller lever plunger, 1NC +1 NO, snap, Pg11



## Main

|                               |  |
|-------------------------------|--|
| Range of product              | Telemecanique Limit switches XC Standard         |
| Series name                   | Standard format                                  |
| Product or component type     | Limit switch                                     |
| Device short name             | XCKM   |
| 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 lever plunger thermoplastic |
| Type of approach              | Lateral approach, 1 direction                    |
| Cable entry                   | 3 entries tapped for Pg 11 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, clamping capacity: 1 x 0.34...2 x 1.5 mm <sup>2</sup>  |
| Contacts insulation form                                 | Zb  |
| Number of steps  | 1   |
| Positive opening   | With  |
| Positive opening minimum force                           | 24 N  |
| Minimum force for tripping                               | 8 N   |
| Minimum actuation speed                                  | 0.01 m/min  |
| Maximum actuation speed                                  | 1.5 m/s   |
| Contact code designation                                 | A300, AC-15 (U <sub>e</sub> = 240 V), I <sub>e</sub> = 3 A conforming to IEC 60947-5-1 appendix A<br>Q300, DC-13 (U <sub>e</sub> = 250 V), I <sub>e</sub> = 0.27 A conforming to IEC 60947-5-1 appendix A   |
| [I <sub>th</sub> ] conventional enclosed thermal current | 10 A AC   |
| [U <sub>i</sub> ] rated insulation voltage               | 300 V conforming to UL 508<br>500 V (pollution degree 3) conforming to IEC 60947-1<br>300 V conforming to CSA C22.2 No 14   |
| Maximum resistance across terminals                      | 25 MOhm conforming to IEC 60255-7 category 3  |
| [U <sub>imp</sub> ] rated impulse withstand voltage      | 6 KV conforming to IEC 60664<br>6 kV conforming to IEC 60947-1  |
| Short-circuit protection                                 | 10 A cartridge fuse, type gG  |
| Electrical durability                                    | 5000000 Cycles, DC-13, inductive load type, 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, inductive load type, 24 V, 7 W, operating rate <60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C<br>5000000 cycles, DC-13, inductive load type, 48 V, 10 W, operating rate <60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C |
| Mechanical durability                                    | 20000000 cycles   |
| Width  | 64 mm   |
| Height   | 64 mm   |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither TWSS Holding nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

|                               |                        |
|-------------------------------|------------------------|
| Depth                         | 30 mm                  |
| Net weight                    | 0.3 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  |
| IK degree of protection               | IK05 conforming to IEC 62262  |
| Electrical shock protection class     | Class I conforming to IEC 61140<br>Class I 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]UL[RETURN]CSA  |
| Standards                             | CSA C22.2 No 14<br>IEC 60204-1<br>UL 508<br>IEC 60947-5-1<br>IEC 60947-5-1<br>IEC 60204-1 |

## Packing Units

|                              |            |
|------------------------------|------------|
| Unit Type of Package 1       | PCE        |
| Number of Units in Package 1 | 1          |
| Package 1 Height             | 3.200 cm   |
| Package 1 Width              | 6.600 cm   |
| Package 1 Length             | 14.800 cm  |
| Package 1 Weight             | 312.000 g  |
| Unit Type of Package 2       | S02        |
| Number of Units in Package 2 | 27         |
| Package 2 Height             | 15.000 cm  |
| Package 2 Width              | 30.000 cm  |
| Package 2 Length             | 40.000 cm  |
| Package 2 Weight             | 8.865 kg   |
| Unit Type of Package 3       | P06        |
| Number of Units in Package 3 | 432        |
| Package 3 Height             | 75.000 cm  |
| Package 3 Width              | 60.000 cm  |
| Package 3 Length             | 80.000 cm  |
| Package 3 Weight             | 151.492 kg |

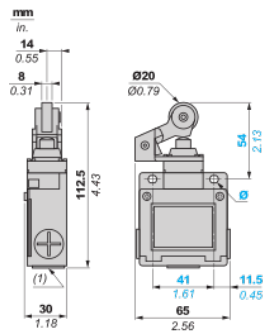
## Offer Sustainability

|  |   |
|--|---|
| Sustainable offer status                   | Green Premium product   |
| Circularity Profile                        | No need of specific recycling operations  |
| 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> |
| For all Reach Rohs enquiries contact us at | <a href="mailto:sustainability@tesensors.com">sustainability@tesensors.com</a>  |

## Contractual warranty

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

Dimensions



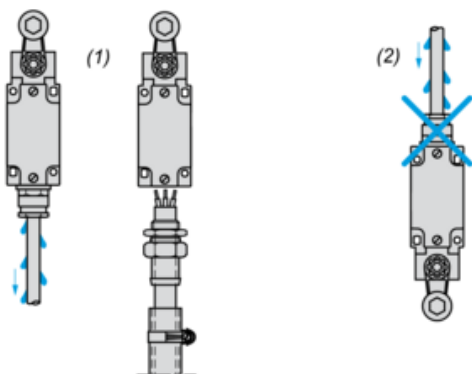
(1) 3 tapped entries Pg 11 cable gland  
Ø : 2 elongated holes Ø 5.2 x 6.2

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Mounting with Cable Entry

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Position of Cable Gland



(1) Recommended

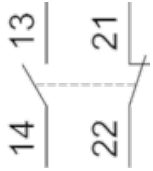
(2) To be avoided

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## Wiring Diagram

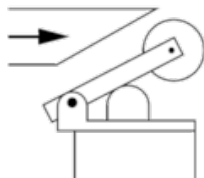
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2-pole NC + NO Snap Action

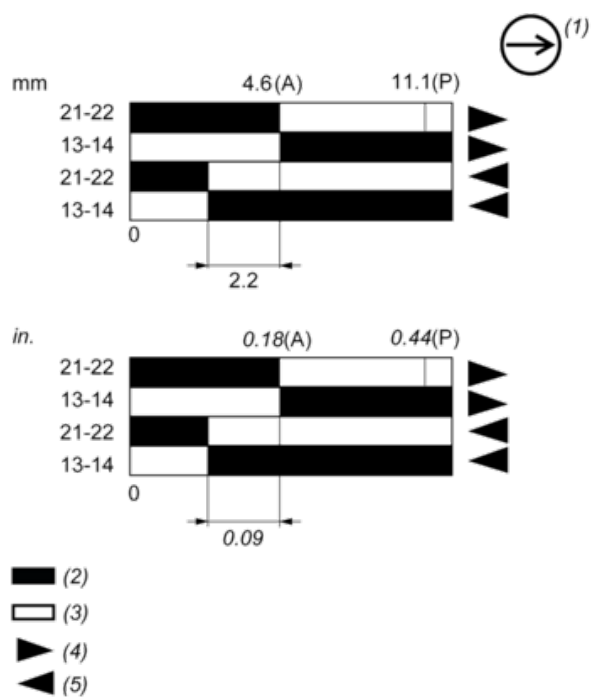


Characteristics of Actuation

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