

# XCKM121

limit switch XCKM - thermoplastic roller lever  
plunger - 1NC+1NO - snap - Pg11



## Main

|                               |  |
|-------------------------------|--|
| Range of product              | OsiSense XC                                      |
| 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

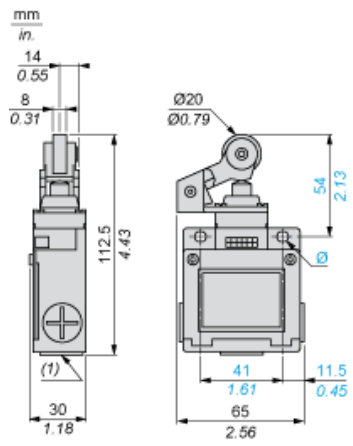
|  |  |
|--|--|
| Switch actuation   | By 30° cam   |
| Electrical connection                                    | Screw-clamp terminals, clamping capacity: 1 x 0.34...2 x 1.5 mm <sup>2</sup>   |
| Contacts insulation form                                 | Zb   |
| Number of steps  | 1  |
| Positive 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 EN/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 EN/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 CSA C22.2 No 14<br>500 V degree of pollution 3 conforming to IEC 60947-1<br>300 V conforming to UL 508   |
| 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 by gG cartridge fuse  |
| 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  |

|                               |                        |
|-------------------------------|------------------------|
| Depth                         | 30 mm                  |
| Product weight                | 0.3 kg                 |
| Terminals description ISO n°1 | (13-14)NO<br>(21-22)NC |

## Environment

|                                       |   |
|---------------------------------------|---|
| Shock resistance                      | 50 gn (duration = 11 ms) conforming to EN/IEC 60068-2-27                                |
| Vibration resistance                  | 25 gn (f = 10...500 Hz) conforming to EN/IEC 60068-2-6                                  |
| IP degree of protection               | IP66 conforming to EN/IEC 60529   |
| IK degree of protection               | IK05 conforming to EN 50102   |
| 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<br>CSA<br>UL  |
| Standards                             | EN 60204-1<br>EN 60947-5-1<br>IEC 60204-1<br>IEC 60947-5-1<br>UL 508<br>CSA C22.2 No 14 |

Dimensions



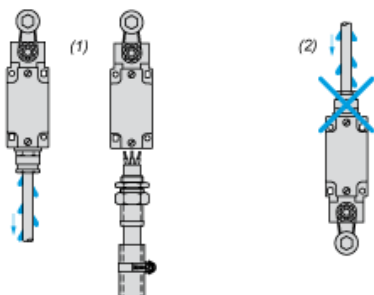
- (1) 3 tapped entries Pg 11 cable gland
- Ø : 2 elongated holes Ø 5.2 x 6.2

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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

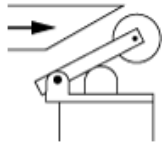
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2-pole NC + NO Snap Action

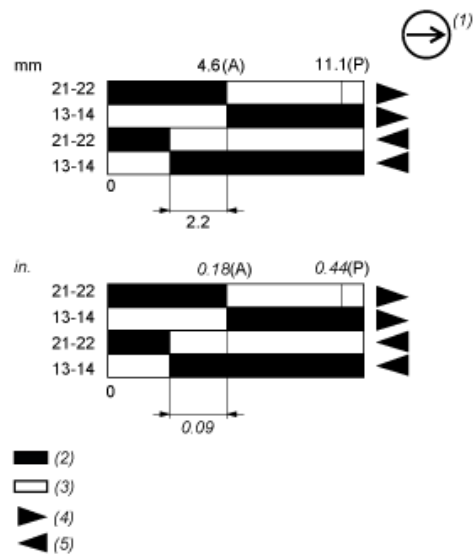


Characteristics of Actuation

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