

XCMD21F2L1

limit switch XCMD - M12 steel roller plunger -
1NC+1NO - snap - 1 m



Main

| | |
|-------------------------------|------------------------------------|
| Range of product | OsiSense XC |
| Series name | Standard format |
| Product or component type | Limit switch |
| Device short name | XCMD |
| Sensor design | Miniature |
| Body type | Fixed |
| Head type | M12 plunger head |
| Material | Metal |
| Body material | Zamak |
| Head material | Zamak |
| Fixing mode | By the head |
| Movement of operating head | Linear |
| Type of operator | Spring return roller plunger metal |
| Type of approach | Lateral approach 2 directions |
| Number of poles | 2 |
| Contacts type and composition | 1 NC + 1 NO |
| Contact operation | Snap action |

Complementary

| | |
|---|--|
| Switch actuation | By 30° cam |
| Electrical connection | Removable cable connector |
| Cable length | 1 m |
| Cable composition | 5 x 0.75 mm ² |
| Wire insulation material | PvR |
| Contacts insulation form | Zb |
| Positive opening | With |
| Positive opening minimum force | 35 N |
| Minimum force for tripping | 7 N |
| Maximum actuation speed | 10 cm/s |
| Contact code designation | B300, AC-15 (U _e = 240 V, I _e = 1.5 A) conforming to EN/IEC 60947-5-1 appendix A R300, DC-13 (U _e = 250 V, I _e = 0.1 A) conforming to EN/IEC 60947-5-1 appendix A |
| [U _i] rated insulation voltage | 300 V degree of pollution 3 conforming to UL 508 400 V degree of pollution 3 conforming to IEC 60947-5-1 300 V degree of pollution 3 conforming to CSA C22.2 No 14 |
| Resistance across terminals | <= 25 MOhm conforming to IEC 60255-7 category 3 |
| [U _{imp}] rated impulse withstand voltage | 4 kV conforming to IEC 60664 4 kV conforming to IEC 60947-1 |
| Short-circuit protection | 6 A by gG cartridge fuse |
| Electrical durability | 5000000 cycles, DC-13, 120 V, 1 W, operating rate: <= 60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C 5000000 cycles, DC-13, 24 V, 3 W, operating rate: <= 60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C 5000000 cycles, DC-13, 48 V, 2 W, operating rate: <= 60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C |
| Mechanical durability | 10000000 cycles |
| Width | 30 mm |
| Height | 50 mm |
| Depth | 16 mm |

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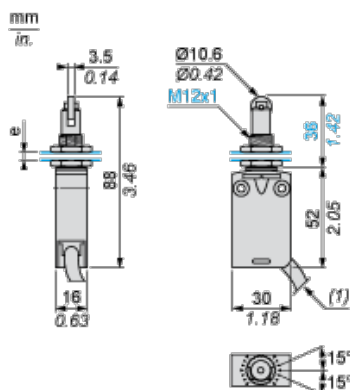
Environment

| | |
|---------------------------------------|--|
| shock resistance | 25 gn (duration = 18 ms) conforming to IEC 60068-2-27 |
| vibration resistance | 5 gn (f = 10...500 Hz) conforming to IEC 60068-2-6 |
| IP degree of protection | IP68 conforming to IEC 60529 IP66 conforming to IEC 60529 IP67 conforming to IEC 60529 |
| IK degree of protection | IK06 conforming to EN 50102 |
| overvoltage category | Class I conforming to NF C 20-030 Class I conforming to IEC 61140 |
| ambient air temperature for operation | -25...70 °C |
| ambient air temperature for storage | -40...70 °C |
| protective treatment | TC |
| product certifications | CCC CSA UL |
| standards | EN/IEC 60204-1 EN/IEC 60947-5-1 UL 508 CSA C22.2 No 14 |

Offer Sustainability

| | |
|----------------------------------|---|
| Sustainable offer status | Green Premium product |
| RoHS (date code: YYWW) | Compliant - since 1002 - Schneider Electric declaration of conformity |
| REACH | Reference not containing SVHC above the threshold |
| Product environmental profile | Available |
| Product end of life instructions | Need no specific recycling operations |

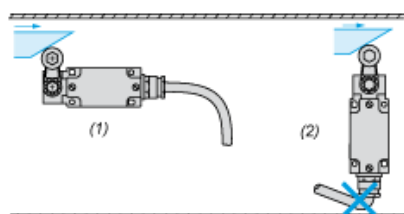
Dimensions



- (1) External diameter of cable 7.5 mm.
e : 8 mm max, panel cut-out \varnothing 12.5 mm.

Mounting

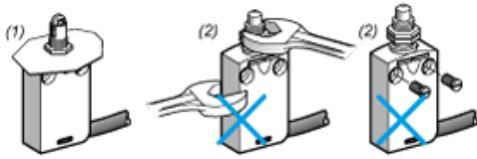
Sweep of Connecting Cable



- (1) Recommended
(2) To be avoided

Panel Mounting

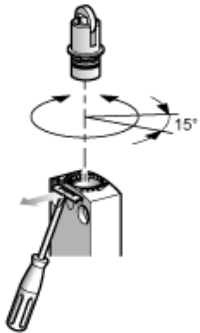
Mounting and Fixing Limit Switches by the Head



- (1) Recommended
- (2) Forbidden

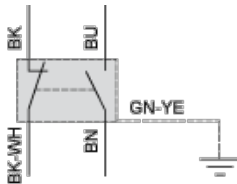
Setting-up

Plunger or Multi-directional Heads



Wiring Diagram

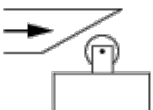
2-pole NC + NO Snap Action



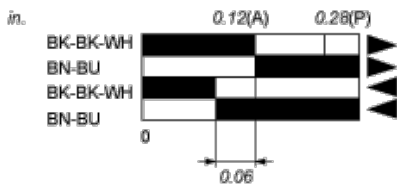
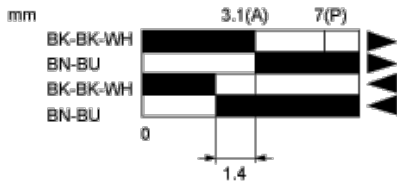
- (BK) Black
- (BK- Black White
WH)
- (BU) Blue
- (BN) Brown
- (GN- Green Yellow
YE)

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
- (BK) Black
- (BK- Black White
WH)
- (BU) Blue
- (BN) Brown