

XCMD21F0L1

Limit switch, Limit switches XC Standard, XCMD, M12 metal end plunger, 1NC+1 NO, snap, 1 m



Main

| | |
|-------------------------------|--|
| Range of product | Telemecanique Limit switches XC Standard |
| 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 plunger metal |
| 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 | Removable cable connector |
| Cable length | 3.28 ft (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 | 42.5 N |
| Minimum force for tripping | 8.5 N |
| Minimum actuation speed | 0.01 m/min |
| Maximum actuation speed | 1.64 ft/s (0.5 m/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 |
| [Ui] rated insulation voltage | 300 V 3)UL 508 400 V (pollution degree 3) conforming to IEC 60947-5-1 300 V 3)CSA C22.2 No 14 |
| Maximum resistance across terminals | 25 mOhm conforming to IEC 60255-7 category 3 |
| [Uimp] rated impulse withstand voltage | 4 kV IEC 60664 4 kV IEC 60947-1 |
| Short-circuit protection | 6 A cartridge fuse gG |

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 Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

| | |
|-----------------------|---|
| 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 | 1.18 in (30 mm) |
| Height | 1.97 in (50 mm) |
| Maximum Depth | 0.63 in (16 mm) |
| Net Weight | 0.43 lb(US) (0.195 kg) |

Environment

| | |
|---------------------------------------|--|
| Shock resistance | 25 gn for 18 ms conforming to IEC 60068-2-27 |
| Vibration resistance | 5 gn 10...500 Hz)IEC 60068-2-6 |
| IP degree of protection | IP66 conforming to IEC 60529 IP67 conforming to IEC 60529 IP68 conforming to IEC 60529 |
| IK degree of protection | IK06 conforming to EN 62262 |
| Overvoltage category | Class I conforming to IEC 61140 Class I 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 CSA UL |
| Standards | UL 508 EN/IEC 60204-1 EN/IEC 60947-5-1 CSA C22.2 No 14 |

Ordering and shipping details

| | |
|-----------------------|--------------------------------------|
| Category | 22413 - LIMIT SWITCH, IEC, MINIATURE |
| Discount Schedule | T |
| GTIN | 00785901298243 |
| Nbr. of units in pkg. | 1 |
| Package weight(Lbs) | 1 lb(US) (0.45 kg) |
| Returnability | No |
| Country of origin | ID |

Packing Units

| | |
|------------------|----------|
| Package 1 Height | 0.160 dm |
| Package 1 width | 1.500 dm |
| Package 1 Length | 1.300 dm |

Offer Sustainability

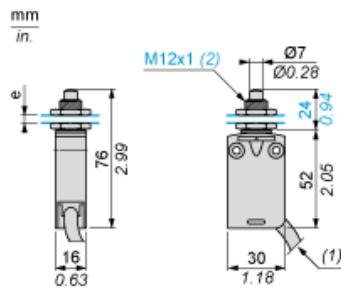
| | |
|----------------------------|---|
| Sustainable offer status | Green Premium product |
| California proposition 65 | WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov |
| REACH Regulation | REACH Declaration |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | Yes |

| | |
|--------------------------|---|
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End Of Life Information |

Contractual warranty

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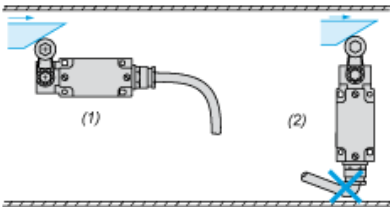
Dimensions



- (1) External diameter of cable 7.5 mm.
- (2) Fixing nut thickness 3.5 mm.
- e : 8 mm max, panel cut-out Ø 12.5 mm.

Mounting

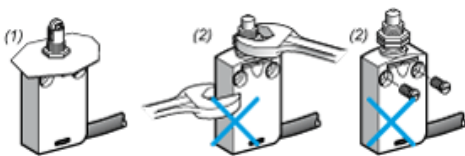
Sweep of Connecting Cable



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

Panel Mounting

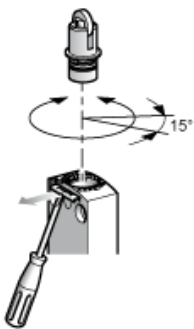
Mounting and Fixing Limit Switches by the Head



- (1) Recommended
- (2) Forbidden

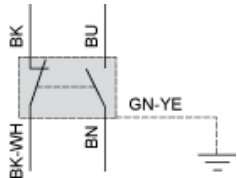
Setting-up

Plunger or Multi-directional Heads



Wiring Diagram

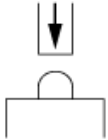
2-pole NC + NO Snap Action



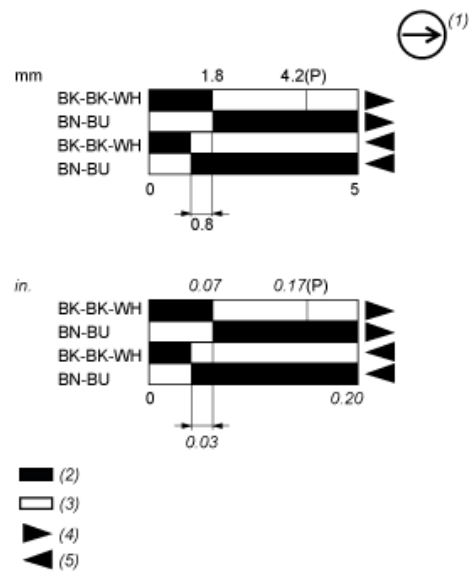
(BK) Black
(BK- Black White
WH)
(BU) Blue
(BN) Brown
(GN- Green Yellow
YE)

Characteristics of Actuation

Switch Actuation on End



Functionnal Diagram



- (P) Positive opening point
- (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