

XCMD21G1L1

Limit switch, Limit switches XC Standard, XCMD, M16 booted nitrile 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 | M16 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 with elastomer boot |
| 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 (Ue = 240 V), Ie = 1.5 A IEC 60947-5-1 appendix A R300, DC-13 (Ue = 250 V), Ie = 0.1 A IEC 60947-5-1 appendix A |
| [Ui] rated insulation voltage | 300 V 3)UL 508 400 V 3)IEC 60947-5-1 300 V 3)CSA C22.2 No 14 |
| Maximum resistance across terminals | 25 mOhm 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 |
| Electrical durability | 5000000 Cycles, DC-13, 120 V, 1 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C 5000000 Cycles, DC-13, 24 V, 3 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C 5000000 cycles, DC-13, 48 V, 2 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C |
| Mechanical durability | 10000000 cycles |
| Width | 1.18 in (30 mm) |
| Height | 1.97 in (50 mm) |

| | |
|------------|-----------------------|
| Depth | 0.63 in (16 mm) |
| Net Weight | 0.49 lb(US) (0.22 kg) |

Environment

| | |
|---------------------------------------|--|
| Shock resistance | 25 gn 18 ms 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 IEC 62262 |
| Overvoltage category | Class I 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[RETURN]CSA[RETURN]UL |
| Standards | IEC 60204-1 IEC 60947-5-1 CSA C22.2 No 14 UL 508 |

Ordering and shipping details

| | |
|-------------------|---------------|
| Category | US1000T22413 |
| Discount Schedule | 000T |
| GTIN | 3389110220025 |
| Returnability | No |

Packing Units

| | |
|------------------------------|--------------------------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 0.79 in (2.0 cm) |
| Package 1 Width | 4.92 in (12.5 cm) |
| Package 1 Length | 4.72 in (12.0 cm) |
| Package 1 Weight | 7.41 oz (210.0 g) |
| Unit Type of Package 2 | PAL |
| Number of Units in Package 2 | 400 |
| Package 2 Height | 23.62 in (60.0 cm) |
| Package 2 Width | 31.50 in (80.0 cm) |
| Package 2 Length | 157.48 in (400.0 cm) |
| Package 2 Weight | 189.60 lb(US) (86.0 kg) |
| Unit Type of Package 3 | S03 |
| Number of Units in Package 3 | 50 |
| Package 3 Height | 11.81 in (30.0 cm) |
| Package 3 Width | 11.81 in (30.0 cm) |
| Package 3 Length | 15.75 in (40.0 cm) |
| Package 3 Weight | 24.22 lb(US) (10.988 kg) |

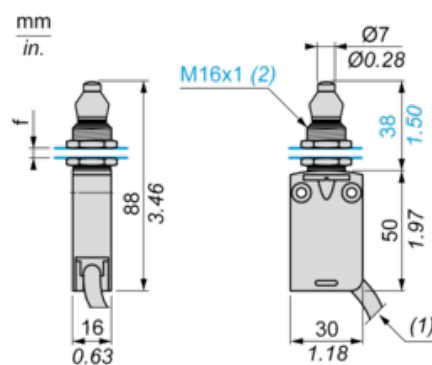
Offer Sustainability

| | |
|--|---|
| 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 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 |
| For all Reach Rohs enquiries contact us at | sustainability@tesensors.com |

Contractual warranty

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

Dimensions



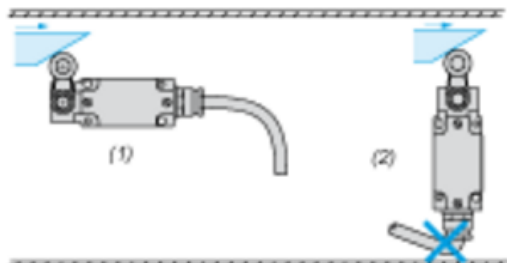
(1) External diameter of cable 7.5 mm.

(2) Fixing nut thickness 3.5 mm.

f : 8 mm max, panel cut-out Ø 16.5 mm.

Mounting

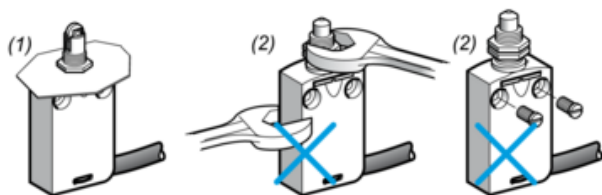
Sweep of Connecting Cable



- (1) Recommended
(2) To be avoided

Panel Mounting

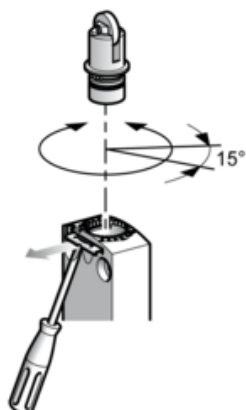
Mounting and Fixing Limit Switches by the Head



- (1) Recommended
(2) Forbidden

Setting-up

Plunger or Multi-directional Heads



Wiring Diagram

2-pole NC + NO Snap Action



(BK) Black

(BK-WH) Black White

(BU) Blue

(BN) Brown

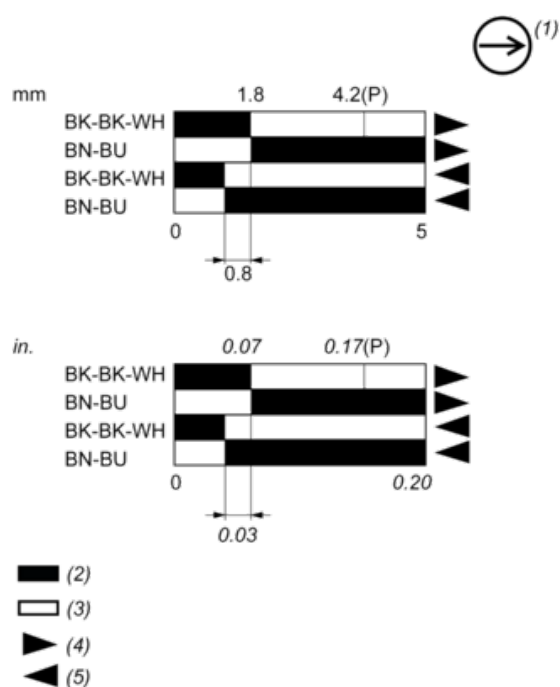
(GN-YE) Green Yellow

Characteristics of Actuation

Switch Actuation on End



Functional Diagram



(P) Positive opening point

(1) NC contact with positive opening operation

(2) Closed

(3) Open

(4) Tripping

(5) Resetting

(BK) Black

(BK-WH) Black White

(BU) Blue

(BN) Brown