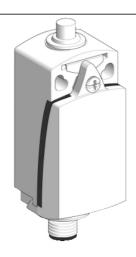
XCKD2110M12

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



Main

| Range of product | Telemecanique Limit switches XC Standard |
|-------------------------------|---|
| Series name | Standard format |
| Product or component type | Limit switch |
| Device short name | XCKD |
| Sensor design | Compact form B conforming to CENELEC EN 50047 |
| Body type | Fixed |
| Head type | Plunger head |
| Material | Metal |
| Body material | Zamak |
| Head material | Zamak |
| Fixing mode | By the body |
| 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

| Complementary | |
|--|--|
| Switch actuation | On end |
| Electrical connection | Male connector M12, 5 pins |
| Contacts insulation form | Zb |
| Positive opening | With |
| Positive opening minimum force | 45 N |
| Minimum force for tripping | 15 N |
| Minimum actuation speed | 0.01 m/min |
| Maximum actuation speed | 0.5 m/s |
| Repeat accuracy | 0.1 mm on the tripping points with 1 million operating cycles |
| [le] rated operational current | 3 A at 50 V, AC-15 conforming to IEC 60947-5-1 appendix A 0.27 A at 50 V, DC-13 conforming to IEC 60947-5-1 appendix A |
| [Ithe] conventional enclosed thermal current | 4 A |
| [Ui] rated insulation voltage | 60 V (pollution degree 3) conforming to IEC 60947-1 |
| Maximum resistance across terminals | 25 MOhm conforming to IEC 60255-7 category 3 |
| [Uimp] rated impulse withstand voltage | 0.8 KV conforming to IEC 60664 0.8 kV conforming to IEC 60947-1 |
| Short-circuit protection | 4 A cartridge fuse, type gG |
| Electrical durability | 5000000 Cycles, DC-13, 24 V, 10 W, operating rate <60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C 5000000 cycles, DC-13, 48 V, 7 W, operating rate <60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C |
| Mechanical durability | 15000000 cycles |
| Width | 31 mm |
| Height | 65 mm |
| Depth | 30 mm |

| Net weight | 0.19 kg | |
|-------------------------------|------------------------|--|
| Terminals description ISO n°1 | (13-14)NO (21-22)NC | |

Environment

| Shock resistance | 50 gn for 11 ms conforming to IEC 60068-2-27 |
|---------------------------------------|---|
| Vibration resistance | 25 gn (f= 10500 Hz) conforming to IEC 60068-2-6 |
| IK degree of protection | IK06 conforming to IEC 62262 |
| Electrical shock protection class | Class I conforming to IEC 61140 Class I conforming to NF C 20-030 |
| Ambient air temperature for operation | -2570 °C |
| Ambient air temperature for storage | -4070 °C |
| Protective treatment | TC |
| Product certifications | UL[RETURN]CCC[RETURN]CSA |
| Standards | IEC 60947-5-1 IEC 60204-1 IEC 60204-1 UL 508 CSA C22.2 No 14 IEC 60947-5-1 |

Packing Units

| • | | |
|------------------------------|--------|--|
| Unit Type of Package 1 | PCE | |
| Number of Units in Package 1 | 1 | |
| Package 1 Height | 3.4 cm | |
| Package 1 Width | 3.3 cm | |
| Package 1 Length | 10 cm | |
| Package 1 Weight | 165 g | |
| | | |

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 www.P65Warnings.ca.gov |
| For all Reach Rohs enquiries contact us at | sustainability@tesensors.com |

Contractual warranty

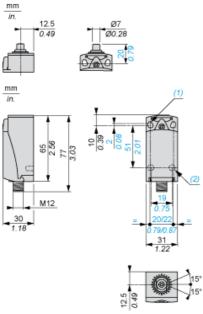
| ontactar warranty | |
|-------------------|-----------|
| Warranty | 18 months |



Product data sheet **Dimensions Drawings**

XCKD2110M12

Dimensions

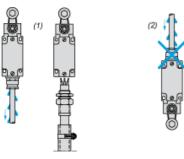


- (1) 2 elongated holes \varnothing 4.3 x 6.3 mm on 22 mm centres, 2 holes \varnothing 4.3 on 20 mm centres. (2) 2 x \varnothing 3 holes for support studs, depth 4 mm.

XCKD2110M12

Mounting with Cable Entry

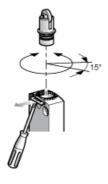
Position of Cable Gland



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

Setting-up

Plunger or Multi-directional Heads



Product data sheet Connections and Schema

XCKD2110M12

Wiring Diagram

2-pole NC + NO Snap Action



Connections

M12 Connector



1-2 : NC 3-4 : NO 5 : Grounding

Product data sheet **Technical Description**

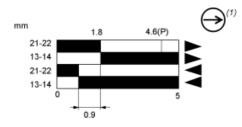
XCKD2110M12

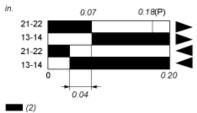
Characteristics of Actuation

Switch Actuation on End



Functionnal Diagram





- (3) (4) (5)
- Positive opening point
- NC contact with positive opening operation

- (1) NC contact (2) Closed (3) Open (4) Tripping (5) Resetting Resetting