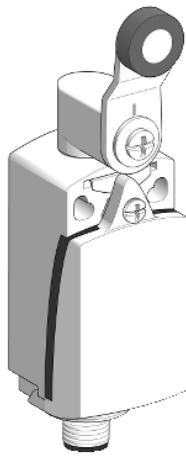


Product data sheet

Characteristics

XCKD2118M12

Limit switch, Limit switches XC Standard, XCKD, thermoplastic roller lever, 1NC+1 NO, snap, M12



Main

| | |
|-------------------------------|--|
| Range of Product | Telemecanique Limit switches XC Standard |
| Series name | Standard format |
| Product or Component | Limit switch |
| Type | |
| Device short name | XCKD |
| Sensor design | Compact form A CENELEC EN 50047 |
| Body type | Fixed |
| Head type | Rotary head |
| Material | Metal |
| Body Material | Zamak |
| Head material | Zamak |
| Fixing Mode | By the body |
| Movement of operating head | Rotary |
| Type of operator | Spring return roller lever thermoplastic |
| Type of approach | Lateral approach, 2 directions |
| Number of poles | 2 |
| Contacts type and composition | 1 NC + 1 NO |
| Contact operation | Snap action |

Complementary

| | |
|--|---|
| Tracks | 24/40 mm |
| Switch actuation | By 30° cam |
| Electrical connection | Male connector M12, 5 pins |
| Contacts insulation form | Zb |
| Positive opening | With |
| Positive opening minimum torque | 2.21 lbf.in (0.25 N.m) |
| Minimum torque for tripping | 0.89 lbf.in (0.1 N.m) |
| Maximum actuation speed | 4.92 ft/s (1.5 m/s) |
| Repeat accuracy | 0.1 mm on the tripping points with 1 million operating cycles |
| [Ie] rated operational current | 3 A 50 V, AC-15 EN/IEC 60947-5-1 appendix A 0.27 A 50 V, DC-13 EN/IEC 60947-5-1 appendix A |
| [Ithe] conventional enclosed thermal current | 4 A |
| [Ui] rated insulation voltage | 60 V 3)IEC 60947-1 |
| Maximum resistance across terminals | 25 MΩ IEC 60255-7 category 3 |
| [Uimp] rated impulse withstand voltage | 0.8 KV IEC 60664 0.8 KV IEC 60947-1 |
| Short-circuit protection | 4 A cartridge fuse gG |
| Electrical durability | 5000000 Cycles, DC-13, 24 V, 10 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C 5000000 cycles, DC-13, 48 V, 7 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C |
| Mechanical durability | 10000000 cycles |
| Width | 1.22 in (31 mm) |
| Height | 2.56 in (65 mm) |
| Depth | 1.18 in (30 mm) |

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.

| | |
|-------------------------------|------------------------|
| Net Weight | 0.49 lb(US) (0.22 kg) |
| Terminals description ISO n°1 | (13-14)NO (21-22)NC |

Environment

| | |
|---------------------------------------|---|
| Shock resistance | 50 gn 11 ms IEC 60068-2-27 |
| Vibration resistance | 25 gn 10...500 Hz)IEC 60068-2-6 |
| IK degree of protection | IK06 EN 50102 |
| Electrical shock protection class | 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 | UL CSA CCC |
| Standards | UL 508 EN 60947-5-1 IEC 60947-5-1 IEC 60204-1 CSA C22.2 No 14 EN 60204-1 |

Ordering and shipping details

| | |
|-------------------|----------------------------------|
| Category | 22418-LIMIT SWITCH,IEC,XCKP&XCKT |
| Discount Schedule | T |
| GTIN | 3389110200966 |
| Returnability | No |
| Country of origin | FR |

Packing Units

| | |
|------------------------------|-------------------------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 1.38 in (3.5 cm) |
| Package 1 Width | 1.89 in (4.8 cm) |
| Package 1 Length | 5.04 in (12.8 cm) |
| Package 1 Weight | 7.44 oz (211.0 g) |
| Unit Type of Package 2 | S01 |
| Number of Units in Package 2 | 21 |
| Package 2 Height | 5.91 in (15.0 cm) |
| Package 2 Width | 5.91 in (15.0 cm) |
| Package 2 Length | 15.75 in (40.0 cm) |
| Package 2 Weight | 10.41 lb(US) (4.723 kg) |

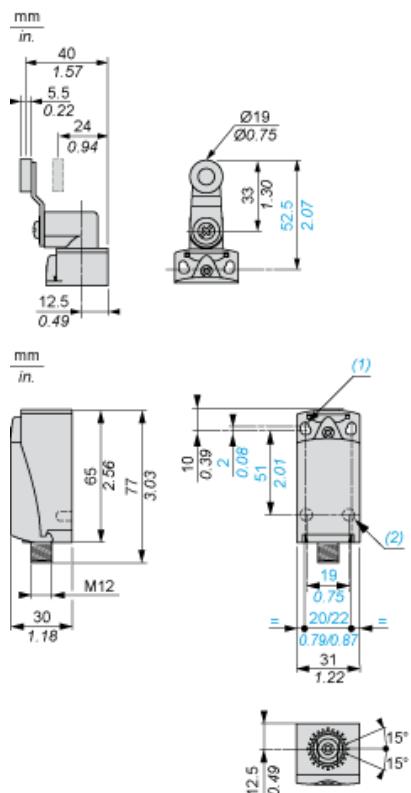
Offer Sustainability

| | |
|----------------------------|---|
| Sustainable offer status | Green Premium product |
| California proposition 65 | WARNING: This product can expose you to chemicals including: Diisobutyl 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 |

Contractual warranty

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

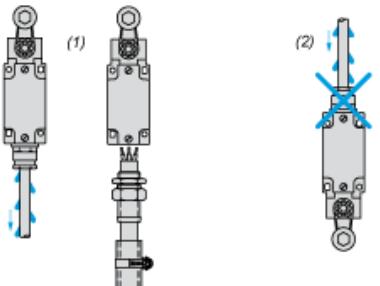
Dimensions



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

Mounting with Cable Entry

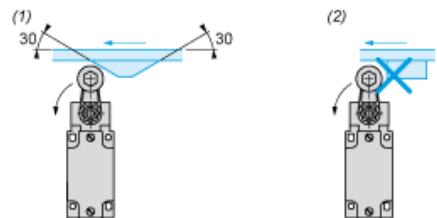
Position of Cable Gland



(1) Recommended
(2) To be avoided

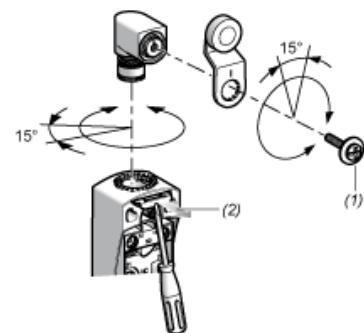
Mounting with Rotary Heads and Levers

Type of Cam



(1) Recommended
(2) To be avoided

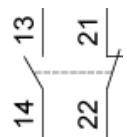
Setting-up with Head ZCE01 and ZCE09



(1) Tightening torque (Min : 1) (Max : 1.5)
(2) Tightening torque (Min : 0.8) (Max : 1.2)

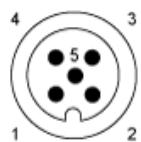
Wiring Diagram

2-pole NC + NO Snap Action



Connections

M12 Connector



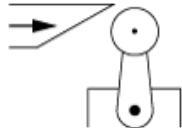
1-2 : NC

3-4 : NO

5 : Grounding

Characteristics of Actuation

Switch Actuation by 30° Cam



Functionnal Diagram

