XCKD2102M12

Limit switch, Limit switches XC Standard, XCKD, steel roller plunger, 1NC+1 NO, snap, M12





Main

Telemecanique Limit switches XC Standard
Standard format
Limit switch
XCKD
Compact form C CENELEC EN 50047
Fixed
Plunger head
Metal
Zamak
Zamak
By the body
Linear
Spring return roller plunger metal
Lateral approach, 2 directions
2
1 NC + 1 NO
Snap action

Complementary

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Switch actuation	By 30° cam
Electrical connection	Male connector M12, 5 pins
Contacts insulation form	Zb
Positive opening	With
Positive opening minimum force	36 N
Minimum force for tripping	12 N
Maximum actuation speed	1.64 ft/s (0.5 m/s)
Repeat accuracy	0.1 mm on the tripping points with 1 million operating cycles
[le] 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 MOhm 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)
Product Weight	0.43 lb(US) (0.195 kg)
Terminals description ISO n°1	(21-22)NC (13-14)NO

Environment

Shock resistance	50 gn 11 ms IEC 60068-2-27
Vibration resistance	25 gn 10500 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	-13158 °F (-2570 °C)
Ambient Air Temperature for Storage	-40158 °F (-4070 °C)
Protective treatment	TC
Product Certifications	UL CCC CSA
Standards	IEC 60947-5-1 CSA C22.2 No 14 EN 60204-1 IEC 60204-1 UL 508 EN 60947-5-1

Ordering and shipping details

Category	22418-LIMIT SWITCH,IEC,XCKP&XCKT
Discount Schedule	Т
GTIN	3389110197839
Returnability	Yes
Country of origin	FR

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1.90 in (4.83 cm)
Package 1 Width	1.90 in (4.83 cm)
Package 1 Length	4.80 in (12.19 cm)
Package 1 Weight	0.71 lb(US) (0.32 kg)
Unit Type of Package 2	S01
Number of Units in Package 2	22
Package 2 Height	5.91 in (15 cm)
Package 2 Width	5.91 in (15 cm)
Package 2 Length	15.75 in (40 cm)
Package 2 Weight	9.03 lb(US) (4.096 kg)

Offer Sustainability

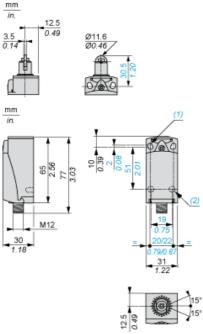
Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to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

Contractual warranty

Warranty	18 months
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XCKD2102M12

Dimensions

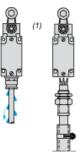


- (1) 2 elongated holes \varnothing 4.3 x 6.3 mm on 22 mm centres, 2 holes \varnothing 4.3 on 20 mm centres. (2) 2 x \varnothing 3 holes for support studs, depth 4 mm.

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Mounting with Cable Entry

Position of Cable Gland

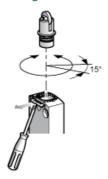




- (1) (2) Recommended
- To be avoided

Setting-up

Plunger or Multi-directional Heads



Product data sheet Connections and Schema

XCKD2102M12

Wiring Diagram

2-pole NC + NO Snap Action



Connections

M12 Connector



1-2 : NC 3-4 : NO

5: Grounding

Product data sheet **Technical Description**

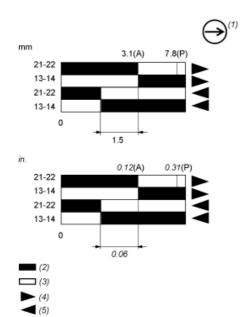
XCKD2102M12

Characteristics of Actuation

Switch Actuation by 30° Cam



Functionnal Diagram



- Positive opening point
- Cam displacement
- NC contact with positive opening operation
- (A) (1) (2) (3) (4) (5) Closed
- Open
- Tripping
- Resetting