



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

XCKD2102M12

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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 C 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 roller plunger metal
Type of approach	Lateral approach, 2 directions
Number of poles	2
Contacts type and composition	1 NC + 1 NO
Contact operation	Snap action

Complementary

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	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 EN/IEC 60947-5-1 appendix A 0.27 A at 50 V, DC-13 conforming to EN/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	10000000 cycles	
Width	31 mm	
Height	65 mm	
Depth	30 mm	
Net weight	0.195 kg	
Terminals description ISO n°1	(21-22)NC (13-14)NO	
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 EN 50102	
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	тс	
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	
Packing Units		
Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Height	4.83 cm	
Package 1 Width	4.83 cm	
Package 1 Length	12.19 cm	
Package 1 Weight	0.32 kg	
Unit Type of Package 2	S01	
Number of Units in Package 2	22	
Package 2 Height	15 cm	

15 cm

15 cm

Package 2 Height

Package 2 Width

Package 2 Length	40 cm		
Package 2 Weight	4.096 kg		
Offer Sustainability			
Sustainable offer status	Green Premium product		
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		
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		

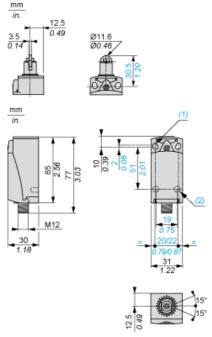
18 months

Warranty

XCKD2102M12

Dimensions Drawings

Dimensions



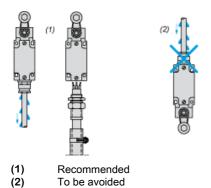
- 2 elongated holes Ø 4.3 x 6.3 mm on 22 mm centres, 2 holes Ø 4.3 on 20 mm centres. 2 x Ø 3 holes for support studs, depth 4 mm.
- (1) (2)

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Mounting and Clearance

Mounting with Cable Entry

Position of Cable Gland



XCKD2102M12

Mounting and Clearance

Setting-up

Plunger or Multi-directional Heads



XCKD2102M12

Connections and Schema

Wiring Diagram

2-pole NC + NO Snap Action



XCKD2102M12

Connections and Schema

Connections

M12 Connector



1-2: 3-4 : 5 :

Grounding

XCKD2102M12

Technical Description

Characteristics of Actuation

Switch Actuation by 30° Cam

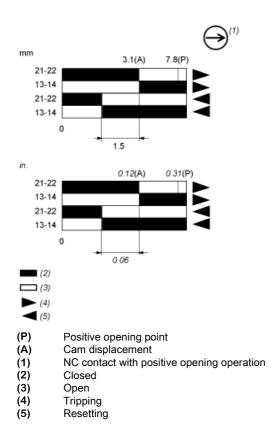


Life Is On Schneider

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Technical Description

Functionnal Diagram



Recommended replacement(s)