



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

XCKD2145M12

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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
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 variable length
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 torque	0.25 N.m	
Minimum torque for tripping	0.1 N.m	
Maximum actuation speed	1.5 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	
Product weight	0.22 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 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	TC	
Product certifications	UL CSA CCC	
Standards	EN 60204-1 CSA C22.2 No 14 UL 508 EN 60947-5-1 IEC 60204-1 IEC 60947-5-1	
Packing Units		
Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Height	5.0 cm	
Package 1 Width	5.0 cm	
Package 1 Length	14.5 cm	
Package 1 Weight	230.0 g	
Unit Type of Package 2	S01	
Number of Units in Package 2	12	
Package 2 Height	15.0 cm	

15.0 cm

15.0 cm

Package 2 Height

Package 2 Width

Package 2 Length	40.0 cm	
Package 2 Weight	3.109 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	

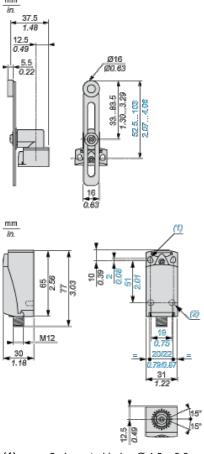
Contractual warranty

Warranty 18 months

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Dimensions Drawings

Dimensions



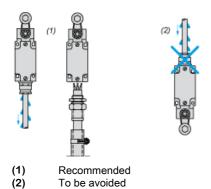
- 2 elongated holes Ø 4.3 x 6.3 mm on 22 mm centres, 2 holes Ø 4.3 on 20 mm centres. 2 x Ø 3 holes for support studs, depth 4 mm.
- (1) (2)

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Mounting and Clearance

Mounting with Cable Entry

Position of Cable Gland

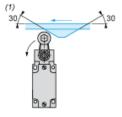


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Mounting and Clearance

Mounting with Rotary Heads and Levers

Type of Cam



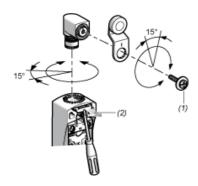


(1) Recommended (2) To be avoided

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Mounting and Clearance

Setting-up with Head ZCE01 and ZCE09



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

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Connections and Schema

Wiring Diagram

2-pole NC + NO Snap Action



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Connections and Schema

Connections

M12 Connector



3-4 : 5 :

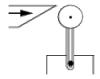
Grounding

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Technical Description

Characteristics of Actuation

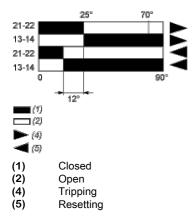
Switch Actuation by 30° Cam



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Technical Description

Functionnal Diagram



Recommended replacement(s)