



# Limit switch, Limit switches XC Standard, XCKD, cat's whisker, 1NC +1 NO, snap, M12

XCKD2106M12

١	J	1	а	ı	r

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	Multi-directional head
Material	Metal
Body material	Zamak
Head material	Zamak
Fixing mode	By the body
Movement of operating head	Multi-directional
Type of operator	Spring return cat"s whisker
Type of approach	Multi-directional approach
Number of poles	2
Contacts type and composition	1 NC + 1 NO
Contact operation	Snap action

#### Complementary

Switch actuation	By any moving part	
Electrical connection	Male connector M12, 5 pins	
Contacts insulation form	Zb	
Positive opening	Without	
Minimum torque for tripping	0.13 N.m	
Maximum actuation speed	1 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	

Disclaimer: 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

[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	5000000 cycles
Width	31 mm
Height	65 mm
Depth	30 mm
Product weight	0.185 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	TC
Product certifications	UL CCC CSA
Standards	UL 508 EN 60204-1 IEC 60947-5-1 EN 60947-5-1 IEC 60204-1 CSA C22.2 No 14
Packing Units	
Unit Type of Package 1	PCE

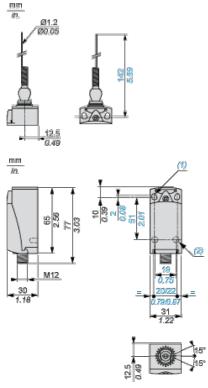
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.3 cm
Package 1 Width	6.35 cm
Package 1 Length	14.73 cm
Package 1 Weight	0.32 kg
Unit Type of Package 2	S01
Number of Units in Package 2	12
Package 2 Height	15 cm
Package 2 Width	15 cm
Package 2 Length	40 cm
Package 2 Weight	2.394 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 **Dimensions Drawings** 

#### **Dimensions**



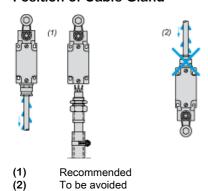
- 2 elongated holes Ø 4.3 x 6.3 mm on 22 mm centres, 2 holes Ø 4.3 on 20 mm centres. 2 x Ø 3 holes for support studs, depth 4 mm.
- (1) (2)

### XCKD2106M12

Mounting and Clearance

### Mounting with Cable Entry

#### **Position of Cable Gland**

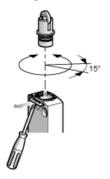


### XCKD2106M12

Mounting and Clearance

Setting-up

#### Plunger or Multi-directional Heads



### XCKD2106M12

Connections and Schema

### Wiring Diagram

### 2-pole NC + NO Snap Action



## XCKD2106M12

Connections and Schema

#### Connections

#### **M12 Connector**



3-4 : 5 :

### XCKD2106M12

Technical Description

**Characteristics of Actuation** 

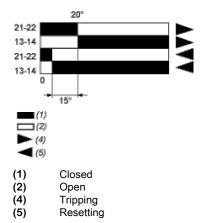
Switch Actuation by Any Moving Part



### XCKD2106M12

**Technical Description** 

#### **Functionnal Diagram**



### Recommended replacement(s)

Life is On Schneider