

# Product data sheet

Specifications



## Limit switch, Limit switches XC Standard, XCKM, cats whisker, 1NC +1 NO, snap action, Pg11

XCKM106

### Main

Range of product	Telemecanique Limit switches XC Standard
Series name	Standard format
Product or component type	Limit switch
Device short name	XCKM
Body type	Fixed
Head type	Multi-directional head
Material	Metal
Body 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
Cable entry	3 entries tapped for Pg 11 cable gland
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	Screw-clamp terminals, clamping capacity: 1 x 0.34...2 x 1.5 mm <sup>2</sup>
Contacts insulation form	Zb
Number of steps	1
Positive opening	Without
Minimum torque for tripping	0.13 N.m
Minimum actuation speed	0.01 m/min
Maximum actuation speed	1 m/s
Contact code designation	A300, AC-15 (U <sub>e</sub> = 240 V), I <sub>e</sub> = 3 A conforming to EN/IEC 60947-5-1 appendix A Q300, DC-13 (U <sub>e</sub> = 250 V), I <sub>e</sub> = 0.27 A conforming to EN/IEC 60947-5-1 appendix A
[I <sub>th</sub> ] conventional enclosed thermal current	10 A AC

<b>[Ui] rated insulation voltage</b>	300 V conforming to UL 508 500 V (pollution degree 3) conforming to IEC 60947-1 300 V conforming to CSA C22.2 No 14
<b>Maximum resistance across terminals</b>	25 MOhm conforming to IEC 60255-7 category 3
<b>[Uimp] rated impulse withstand voltage</b>	6 kV conforming to IEC 60664 6 kV conforming to IEC 60947-1
<b>Short-circuit protection</b>	10 A cartridge fuse, type gG
<b>Electrical durability</b>	5000000 cycles, DC-13, inductive load type, 120 V, 4 W, operating rate <60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C 5000000 cycles, DC-13, inductive load type, 24 V, 7 W, operating rate <60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C 5000000 cycles, DC-13, inductive load type, 48 V, 10 W, operating rate <60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C
<b>Mechanical durability</b>	10000000 cycles
<b>Width</b>	64 mm
<b>Height</b>	64 mm
<b>Depth</b>	30 mm
<b>Net weight</b>	0.25 kg
<b>Terminals description ISO n°1</b>	(21-22)NC (13-14)NO

## Environment

<b>Shock resistance</b>	50 gn for 11 ms conforming to EN/IEC 60068-2-27
<b>Vibration resistance</b>	25 gn (f= 10...500 Hz) conforming to EN/IEC 60068-2-6
<b>IP degree of protection</b>	IP66 conforming to EN/IEC 60529
<b>IK degree of protection</b>	IK05 conforming to EN 50102
<b>Electrical shock protection class</b>	Class I conforming to IEC 61140 Class I conforming to NF C 20-030
<b>Ambient air temperature for operation</b>	-25...70 °C
<b>Ambient air temperature for storage</b>	-40...70 °C
<b>Protective treatment</b>	TC
<b>Product certifications</b>	UL CCC CSA
<b>Standards</b>	IEC 60947-5-1 CSA C22.2 No 14 EN 60204-1 EN 60947-5-1 UL 508 IEC 60204-1

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	3.556 cm
<b>Package 1 Width</b>	6.604 cm
<b>Package 1 Length</b>	22.352 cm
<b>Package 1 Weight</b>	267.622 g
<b>Unit Type of Package 2</b>	S02
<b>Number of Units in Package 2</b>	18
<b>Package 2 Height</b>	15 cm

Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	5.458 kg
Unit Type of Package 3	P06
Number of Units in Package 3	288
Package 3 Height	77 cm
Package 3 Width	60 cm
Package 3 Length	80 cm
Package 3 Weight	91.812 kg

## Offer Sustainability

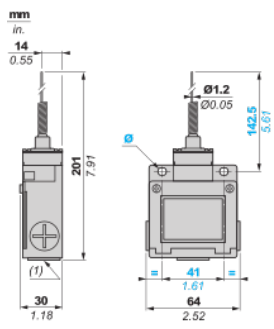
Sustainable offer status	Green Premium product
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>

## Contractual warranty

Warranty	18 months
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Dimensions

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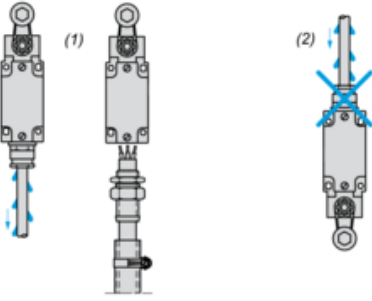


- (1) 3 tapped entries Pg 11 cable gland
- Ø : 2 elongated holes Ø 5.2 x 6.2

**Mounting with Cable Entry**

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**Position of Cable Gland**

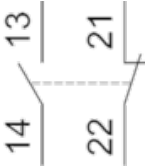


- (1) Recommended
- (2) To be avoided

**Wiring Diagram**

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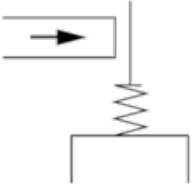
**2-pole NC + NO Snap Action**



**Characteristics of Actuation**

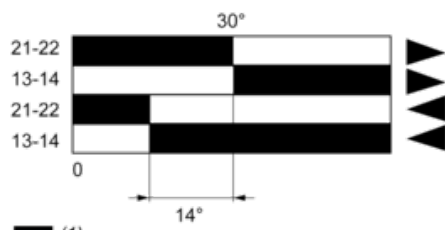
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**Switch Actuation by Any Moving Part**



Functionnal Diagram

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- (1) Closed
- (2) Open
- (3) Tripping
- (4) Resetting

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- (2) Open
- (3) Tripping
- (4) Resetting

Recommended replacement(s)