

# Product data sheet

Specifications



Limit switch, Limit switches XC Standard, XCKN, with rotary head w/o operating lever, 1NC+1 NO, snap, M16

XCKN2101P16

## Main

Range of product	Telemecanique Limit switches XC Standard
Series name	Standard format
Product or component type	Limit switch
Device short name	XCKN
Sensor design	Compact form A
Body type	Fixed
Head type	Rotary head
Material	Plastic
Body material	Plastic
Head material	Plastic
Fixing mode	By the body
Movement of operating head	Rotary
Type of operator	Spring return without operating lever
Type of approach	Lateral approach, 2 directions
Cable entry	1 entry tapped for M16 x 1.5 cable gland 0.28...0.51 in (7...13 mm)
Number of poles	2
Contacts type and composition	1 NC + 1 NO
Contact operation	Snap action

## Complementary

Electrical connection	Screw-clamp terminals 1 x 0.34...2 x 1.5 mm <sup>2</sup>
Contacts insulation form	Zb
Positive opening	With
Minimum torque for tripping	0.89 lbf.in (0.1 N.m)
Maximum actuation speed	4.92 ft/s (1.5 m/s)
Contact code designation	A300, AC-15 (U <sub>e</sub> = 240 V), I <sub>e</sub> = 3 A 10 A EN/IEC 60947-5-1 appendix A R300, DC-13 (U <sub>e</sub> = 250 V), I <sub>e</sub> = 0.1 A EN/IEC 60947-5-1 appendix A
[Ui] rated insulation voltage	300 VUL 508 500 V 3)IEC 60947-1 300 VCSA C22.2 No 14

<b>[Uimp] rated impulse withstand voltage</b>	6 kV IEC 60664 6 kV IEC 60947-1
<b>Short-circuit protection</b>	10 A cartridge fuse gG
<b>Electrical durability</b>	5000000 cycles, DC-13, 120 V, 4 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C 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
<b>Mechanical durability</b>	10000000 cycles
<b>Width</b>	1.18 in (30 mm)
<b>Height</b>	2.95 in (75 mm)
<b>Depth</b>	1.18 in (30 mm)
<b>Net weight</b>	0.39 lb(US) (0.175 kg)
<b>Terminals description ISO n°1</b>	(13-14)NO (21-22)NC

## Environment

<b>Shock resistance</b>	45 gn 11 ms IEC 60068-2-27
<b>Vibration resistance</b>	25 gn 10...500 Hz)IEC 60068-2-6
<b>IP degree of protection</b>	IP65 IEC 60529
<b>IK degree of protection</b>	IK04 EN 50102
<b>Overvoltage category</b>	Class II IEC 61140 Class II NF C 20-030
<b>Ambient air temperature for operation</b>	-13...158 °F (-25...70 °C)
<b>Ambient air temperature for storage</b>	-40...158 °F (-40...70 °C)
<b>Protective treatment</b>	TC
<b>Product certifications</b>	CSA UL CCC
<b>Standards</b>	UL 508 EN 60947-5-1 EN 60204-1 CSA C22.2 No 14 IEC 60204-1 IEC 60947-5-1

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	4.33 in (11.0 cm)
<b>Package 1 Width</b>	6.30 in (16.0 cm)
<b>Package 1 Length</b>	12.20 in (31.0 cm)
<b>Package 1 Weight</b>	2.79 oz (79.0 g)
<b>Unit Type of Package 2</b>	BB1
<b>Number of Units in Package 2</b>	20
<b>Package 2 Height</b>	4.33 in (11.0 cm)
<b>Package 2 Width</b>	6.30 in (16.0 cm)
<b>Package 2 Length</b>	12.20 in (31.0 cm)
<b>Package 2 Weight</b>	3.48 lb(US) (1.58 kg)
<b>Unit Type of Package 3</b>	S03
<b>Number of Units in Package 3</b>	60

<b>Package 3 Height</b>	11.81 in (30.0 cm)
<b>Package 3 Width</b>	11.81 in (30.0 cm)
<b>Package 3 Length</b>	15.75 in (40.0 cm)
<b>Package 3 Weight</b>	11.77 lb(US) (5.338 kg)

## Offer Sustainability

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

## Contractual warranty

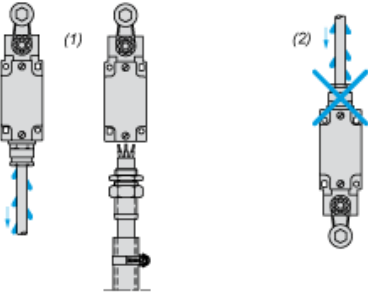
<b>Warranty</b>	18 months
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**Mounting with Cable Entry**

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**Position of Cable Gland**

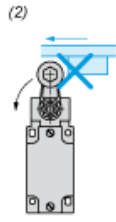
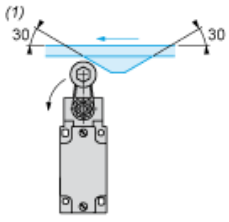


- (1) Recommended
- (2) To be avoided

**Mounting with Rotary Heads and Levers**

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**Type of Cam**

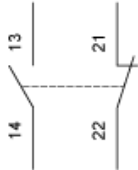


- (1) Recommended
- (2) To be avoided

**Wiring Diagram**

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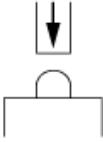
**2-pole NC + NO Snap Action**



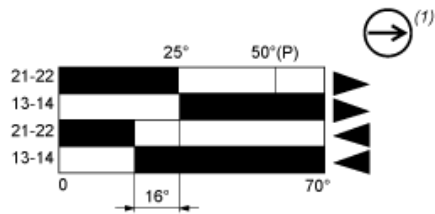
**Characteristics of Actuation**

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**Switch Actuation on End**



Functionnal Diagram



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

- (P) Positive opening point
- (1) NC contact with positive opening operation

Recommended replacement(s)