

Product data sheet Characteristics

XCKN2906P20

limit switch XCKN - cat's whisker - 2NC - snap - M20





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
Body type	Fixed
Head type	Multi-directional head
Material	Plastic
Body material	Plastic
Head material	Plastic
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	1 entry tapped for M20 x 1.5 cable gland, cable outer diameter: 713 mm
Number of poles	2
Contacts type and composition	2 NC
Contact operation	Snap action

Complementary

Switch actuation	By any moving part
Electrical connection	Screw-clamp terminals, clamping capacity: 1 x 0.342 x 1.5 mm²
Contacts insulation form	Zb
Positive opening	Without
Minimum torque for tripping	0.13 N.m
Maximum actuation speed	1 m/s
Contact code designation	A300, AC-15 (Ue = 240 V), le = 3 A, Ithe = 10 A conforming to EN/IEC 60947-5-1 appendix A Q300, DC-13 (Ue = 250 V), le = 0.27 A conforming to EN/IEC 60947-5-1 appendix A
[Ui] rated insulation voltage	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
[Uimp] rated impulse withstand voltage	6 KV conforming to IEC 60664 6 kV conforming to IEC 60947-1
Short-circuit protection	10 A cartridge fuse, type gG
Electrical durability	5000000 Cycles, DC-13, 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, 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	30 mm

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein.

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.

It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Height	197 mm
Depth	30 mm
Net weight	0.135 kg
Terminals description ISO n°1	(21-22)NC (11-12)NC

Environment

Shock resistance	45 gn for 11 ms conforming to IEC 60068-2-27
Vibration resistance	25 gn (f= 10500 Hz) conforming to IEC 60068-2-6
IP degree of protection	IP65 conforming to IEC 60529
IK degree of protection	IK04 conforming to EN 50102
Overvoltage category	Class II conforming to IEC 61140 Class II 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	CSA[RETURN]CCC[RETURN]UL
Standards	UL 508 EN 60947-5-1 EN 60204-1 CSA C22.2 No 14 IEC 60204-1 IEC 60947-5-1

Packing Units

3		
Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Height	3 cm	
Package 1 Width	3 cm	
Package 1 Length	19.65 cm	
Package 1 Weight	71 g	

Offer Sustainability

Sustainable offer status	Green Premium product
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EV RoHS Declaration
Mercury free	Yes
RoHS exemption information	€Yes

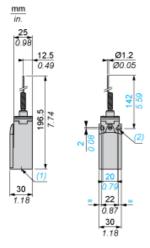
Contractual warranty

Warranty	18 months

Product data sheet Dimensions Drawings

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Dimensions

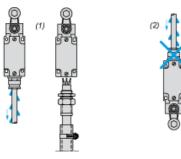


- (1) 1 tapped entry for M20 x 1.5
- (2) \varnothing : 2 elongated holes \varnothing 4.3 x 6.3 on 22 mm centres, 2 holes \varnothing 4.3 on 20 mm centres.

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Mounting with Cable Entry

Position of Cable Gland



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

Product data sheet Connections and Schema

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Wiring Diagram

2-pole NC + NC Snap Action

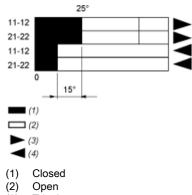
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Characteristics of Actuation

Switch Actuation by Any Moving Part



Functionnal Diagram



- Open
- (3) Tripping (4) Resetting