XCKN2902P20

Limit switch, Limit switches XC Standard, XCKN, plastic roller plunger, 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 form C		
Body type	Fixed		
Head type	Plunger head		
Material	Plastic		
Body material	Plastic		
Head material	Plastic		
Fixing mode	By the body		
Movement of operating head	Linear		
Type of operator	Spring return roller plunger plastic		
Type of approach	Lateral approach, 2 directions		
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 30° cam
Electrical connection	Screw-clamp terminals, clamping capacity: 1 x 0.342 x 1.5 mm²
Contacts insulation form	Zb
Positive opening	With
Positive opening minimum force	20 N
Minimum force for tripping	12 N
Maximum actuation speed	0.3 m/s
Contact code designation	A300, AC-15 (Ue = 240 V), Ie = 3 A conforming to EN/IEC 60947-5-1 appendix A Q300, DC-13 (Ue = 250 V), Ie = 0.27 A, Ithe = 10 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	10000000 cycles
Width	30 mm
Height	85 mm
Depth	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.

Net weight	0.145 kg	
Terminals description ISO n°1	(11-12)NC	
	(21-22)NC	

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]UL[RETURN]CCC
Standards	IEC 60204-1 UL 508 CSA C22.2 No 14 IEC 60947-5-1 EN 60204-1 EN 60947-5-1

Packing Units

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Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Height	3.0 cm	
Package 1 Width	3.0 cm	
Package 1 Length	8.5 cm	
Package 1 Weight	65.0 g	

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)	
Mercury free	Yes	
RoHS exemption information	€Yes	
Circularity Profile	No need of specific recycling operations	
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	

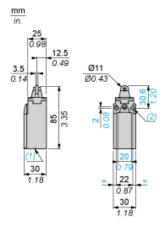
Contractual warranty

\	40	
Warranty	18 months	

Product data sheet **Dimensions Drawings**

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Dimensions

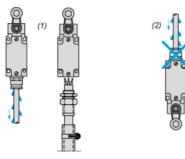


- (1) 1 tapped entry for M20 x 1.5
 (2) Ø: 2 elongated holes Ø 4.3 x 6.3 on 22 mm centres, 2 holes Ø 4.3 on 20 mm centres.

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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

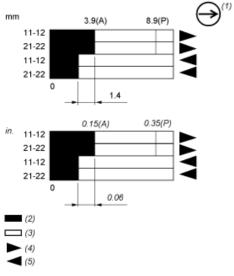
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Characteristics of Actuation

Switch Actuation by 30° Cam



Functionnal Diagram



- Positive opening point
- (A) Cam displacement
 (1) NC contact with positive opening operation
 (2) Closed
 (3) Open
 (4) Tripping
 (5) Resetting