

Product data sheet Characteristics

XCKN2521P20

limit switch XCKN - th.plastic roller lever plung. Hor - 1NC+1NO - slow - 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 E
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 lever plunger thermoplastic
Type of approach	Lateral approach, 1 direction
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	1 NC + 1 NO
Contact operation	Slow-break, break before make

Complementary

Switch actuation	By 30° cam
Electrical connection	Screw-clamp terminals, clamping capacity: 1 x 0.52 x 2.5 mm²
Contacts insulation form	Zb
Positive opening	With
Positive opening minimum force	10 N
Minimum force for tripping	6 N
Maximum actuation speed	1 m/s
Contact code designation	A300, AC-15 (Ue = 240 V), Ie = 3 A, Ithe = 10 A conforming to EN/IEC 60947-5-1 appendix A R300, DC-13 (Ue = 250 V), Ie = 0.1 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

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Width	30 mm
Height	94 mm
Depth	30 mm
Net weight	0.145 kg
Terminals description ISO n°1	(21-22)NC (13-14)NO

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

Packing Units

· coming of the	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	0.1 cm
Package 1 Width	0.1 cm
Package 1 Length	0.2 cm
Package 1 Weight	70 g
Unit Type of Package 2	BB1
Number of Units in Package 2	20
Package 2 Height	11 cm
Package 2 Width	13 cm
Package 2 Length	17 cm
Package 2 Weight	1.45 kg
Unit Type of Package 3	S03
Number of Units in Package 3	160
Package 3 Height	30 cm
Package 3 Width	30 cm
Package 3 Length	40 cm
Package 3 Weight	11.923 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)	
Mercury free	Yes	
RoHS exemption information	₽¥Yes	
Circularity Profile	No need of specific recycling operations	

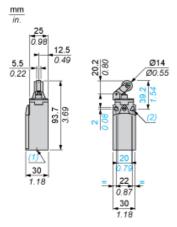
Contractual warranty

144	10
Warranty	18 months
varianty	To monate

Product data sheet **Dimensions Drawings**

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Dimensions

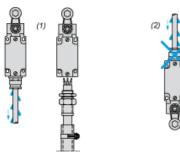


- $\begin{array}{ll} \hbox{(1)} & \hbox{1 tapped entry for M20 x 1.5} \\ \hbox{(2)} & \hbox{\varnothing: 2 elongated holes \varnothing 4.3 x 6.3 on 22 mm centres, 2 holes \varnothing 4.3 on 20 mm centres.} \end{array}$

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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 N/C + N/O Break before Make, Slow Break



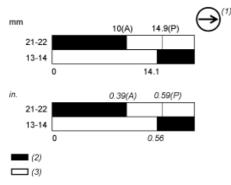
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Characteristics of Actuation

Switch Actuation by 30° Cam



Functionnal Diagram



- Positive opening point Cam displacement
- (1) NC contact with positive opening operation
- Closed
- Open