Product data sheet
Characteristics

XCKN2154P20
Limit switch, Limit switches XC Standard, XCKN, steel square rod lever 3 mm, 1NC+1 NO, 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	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 square rod lever metal square rod 3 mm, L = 125 mm
Type of approach	Lateral approach, 2 directions
Cable entry	1 entry tapped for M20 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

Switch actuation	By any moving part
Electrical connection	Screw-clamp terminals 1 x 0.34...2 x 1.5 mm²
Contacts insulation form	Zb
Positive opening	With
Positive opening minimum torque	1.33 lbf.in (0.15 N.m)
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 (Ue = 240 V), Ie = 3 A 10 A EN/IEC 60947-5-1 appendix A R300, DC-13 (Ue = 250 V), Ie = 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
[Uimp] rated impulse withstand voltage	6 KV IEC 60664 6 kV IEC 60947-1
Short-circuit protection	10 A cartridge fuse gG
Electrical durability	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
Mechanical durability	10000000 cycles
Width	1.18 in (30 mm)
Height	3.54…7.48 in (90…190 mm)
Depth	1.65 in (42 mm)
Net Weight	0.40 lb(US) (0.18 kg)
Terminals description ISO n°1	(13-14)NO (21-22)NC

Environment

Shock resistance	45 gn 11 ms IEC 60068-2-27
Vibration resistance	25 gn 10…500 Hz)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 IEC 61140 Class II NF C 20-030
Ambient Air Temperature for Operation	-13…158 °F (-25…70 °C)
Ambient Air Temperature for Storage	-40…158 °F (-40…70 °C)
Protective treatment	TC
Product Certifications	CSA[RETURN]UL[RETURN]CCC
Standards	EN 60947-5-1 UL 508 IEC 60947-5-1 CSA C22.2 No 14 IEC 60204-1 EN 60204-1

Ordering and shipping details

Category	US1000T22435
Discount Schedule	000T
GTIN	3389119019095
Returnability	No
Country of origin	ID

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.33 in (11 cm)
Package 1 Width	6.30 in (16 cm)
Package 1 Length	12.20 in (31 cm)
Package 1 Weight	3.10 oz (88 g)
Unit Type of Package 2	S03
Number of Units in Package 2	3
Package 2 Height	11.81 in (30 cm)
Package 2 Width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)
Package 2 Weight	34.53 oz (979 g)

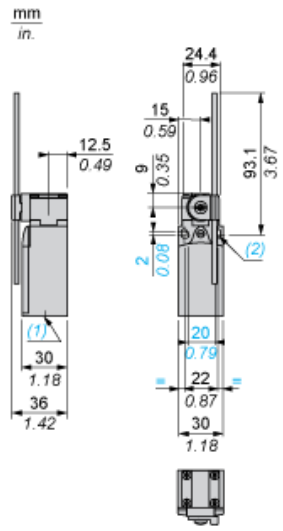
Offer Sustainability

Sustainable offer status	Green Premium product
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
Circularity Profile	No need of specific recycling operations
For all Reach Rohs enquiries contact us at	sustainability@tesensors.com

Contractual warranty

Warranty	18 months

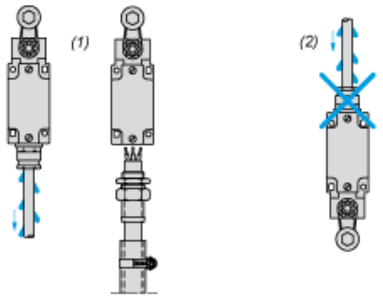
Dimensions



(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.

Mounting with Cable Entry

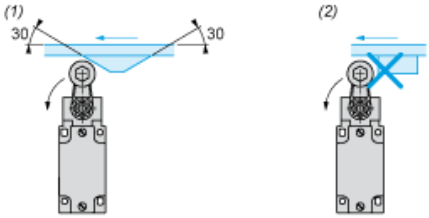
Position of Cable Gland



(1) Recommended
(2) To be avoided

Mounting with Rotary Heads and Levers

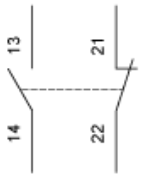
Type of Cam



(1) Recommended
(2) To be avoided

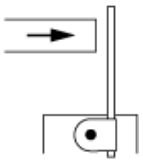
Wiring Diagram

2-pole NC + NO Snap Action

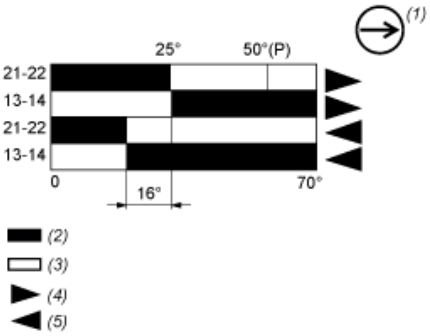


Characteristics of Actuation

Switch Actuation by Any Moving Part



Functionnal Diagram



(P) Positive opening point
(1) NC contact with positive opening operation
(2) Closed
(3) Open
(4) Tripping
(5) Resetting