

XCKN2106P20

Limit switch, Limit switches XC Standard,
XCKN, cat's whisker, 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	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 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 mm ²
Contacts insulation form	Zb
Positive opening	Without
Minimum torque for tripping	1.15 lbf.in (0.13 N.m)
Maximum actuation speed	3.28 ft/s (1 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	5000000 cycles
Width	1.18 in (30 mm)
Height	7.76 in (197 mm)
Depth	1.18 in (30 mm)
Net Weight	0.30 lb(US) (0.135 kg)
Terminals description ISO n°1	(21-22)NC (13-14)NO

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

Ordering and shipping details

Category	22435 - LIMIT SWITCHES,TYPE XCM
Discount Schedule	T
GTIN	3389110214352
Nbr. of units in pkg.	1
Package weight(Lbs)	2.50 oz (71 g)
Returnability	No
Country of origin	ID

Packing Units

Unit Type of Package 1	PCE
Package 1 Height	4.33 in (11 cm)
Package 1 width	6.30 in (16 cm)
Package 1 Length	12.20 in (31 cm)
Unit Type of Package 2	BB1
Number of Units in Package 2	20
Package 2 Weight	3.24 lb(US) (1.47 kg)
Package 2 Height	4.33 in (11 cm)
Package 2 width	6.30 in (16 cm)
Package 2 Length	12.20 in (31 cm)
Unit Type of Package 3	S03
Number of Units in Package 3	60
Package 3 Weight	11.68 lb(US) (5.3 kg)
Package 3 Height	11.81 in (30 cm)
Package 3 width	11.81 in (30 cm)
Package 3 Length	15.75 in (40 cm)

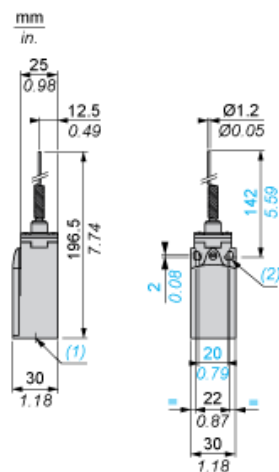
Offer Sustainability

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
REACH Regulation	REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile

Contractual warranty

Warranty	18 months
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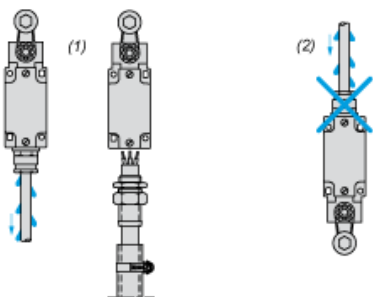
Dimensions



- (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.

Mounting with Cable Entry

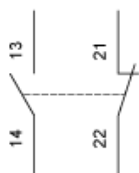
Position of Cable Gland



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

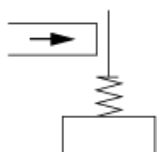
Wiring Diagram

2-pole NC + NO Snap Action

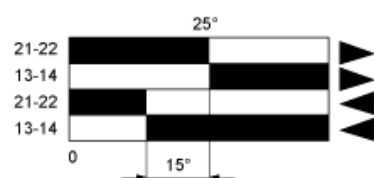


Characteristics of Actuation

Switch Actuation by Any Moving Part



Functionnal Diagram



- (1)
- (2)
- (3)
- (4)

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

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