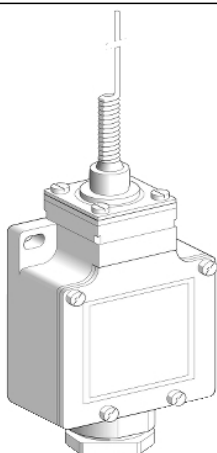


XCKL506

Limit switch, Limit switches XC Standard, XCKL, cats whisker, 1NC+1 NO, slow break, Cable gland



Main

Range of product	Telemecanique Limit switches XC Standard
Series name	Standard format
Product or component type	Limit switch
Device short name	XCKL
Body type	Fixed
Head type	Multi-directional head
Material	Metal
Body material	Zamak
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 metal cable gland entry, cable outer diameter: 6...13.5 mm
Number of poles	2
Contacts type and composition	1 NC + 1 NO
Contact operation	Slow-break, break before make

Complementary

Switch actuation	By any moving part
Electrical connection	Screw-clamp terminals, clamping capacity: 1 x 0.5...2 x 2.5 mm ²
Contacts insulation form	Zb
Number of steps	1
Positive opening	Without
Minimum torque for tripping	0.13 N.m
Minimum actuation speed	6 m/min
Maximum actuation speed	1 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 conforming to EN/IEC 60947-5-1 appendix A
[Ithe] conventional enclosed thermal current	10 A AC
[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
Maximum resistance across terminals	25 MOhm conforming to IEC 60255-7 category 3
[Uimp] rated impulse withstand voltage	6 kV IEC 60664 6 kV IEC 60947-1
Short-circuit protection	10 A cartridge fuse, type gG
Electrical durability	5000000 Cycles, DC-13, inductive load type, 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, inductive load type, 24 V, 7 W, operating rate <60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C 5000000 cycles, DC-13, inductive load type, 48 V, 10 W, operating rate <60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C
Mechanical durability	10000000 cycles
Width	52 mm

Height	72 mm
Depth	30 mm
Net weight	0.255 kg
Terminals description ISO n°1	(21-22)NC (13-14)NO

Environment

Shock resistance	50 gn for 11 ms conforming to EN/IEC 60068-2-27
Vibration resistance	25 gn (f= 10...500 Hz) conforming to EN/IEC 60068-2-6
IP degree of protection	IP66 conforming to EN/IEC 60529
IK degree of protection	IK05 conforming to EN 50102
Electrical shock protection class	Class I conforming to IEC 61140 Class I conforming to NF C 20-030
Ambient air temperature for operation	-25...70 °C
Ambient air temperature for storage	-40...70 °C
Protective treatment	TC
Product certifications	UL CSA
Standards	IEC 60204-1 CSA C22.2 No 14 UL 508 IEC 60947-5-1 EN 60947-5-1 EN 60204-1

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	264 g
Package 1 Height	3.4 cm
Package 1 width	6.6 cm
Package 1 Length	22.2 cm

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)  EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	 Yes
Environmental Disclosure	 Product Environmental Profile

Contractual warranty

Warranty	18 months
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Technical drawing of the 1000 Series 1/2" valve, showing front and side views with dimensions in mm and inches.

Front View Dimensions:

- Top flange outer diameter: 14 mm (0.55 in.)
- Top flange thickness: 0.55 in.
- Valve body height: 209.5 mm (8.25 in.)
- Bottom flange outer diameter: 30 mm (1.18 in.)
- Bottom flange thickness: 1.18 in.
- Valve handle (1) is shown in the open position.

Side View Dimensions:

- Top flange outer diameter: $\varnothing 1.2$ in.
- Top flange thickness: $\varnothing 0.05$ in.
- Valve body height: 142.5 mm (5.61 in.)
- Valve handle (2) is shown in the closed position.
- Bottom flange outer diameter: 41 mm (1.61 in.)
- Bottom flange thickness: 1.61 in.
- Valve body width: 52 mm (2.05 in.)
- Valve body height (excluding top flange): 5.61 in.

- (1) Pg 13.5 cable gland
Ø : 2 elongated holes Ø 5.2 x 6.2

Mounting with Cable Entry

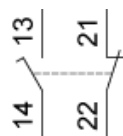
Position of Cable Gland



- (1) Recommended
(2) To be avoided

Wiring Diagram

2-pole NC + NO Break Before Make, Slow Break

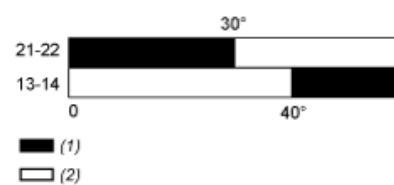


Characteristics of Actuation

Switch Actuation by Any Moving Part



Functionnal Diagram



- (1) Closed
(2) Open