

Main

Range of product	OsiSense XC
Series name	Standard format
Product or component type	Limit switch
Device short name	XCKML
Body type	Fixed
Head type	Plunger head
Material	Metal
Body material	Zamak
Fixing mode	By the body
Movement of operating head	Linear
Type of operator	Spring return plunger metal
Type of approach	Vertical approach, 1 direction
Cable entry	3 entries tapped for Pg 13.5 cable gland, cable outer diameter: 9...12 mm
Number of poles	4
Contacts type and composition	2 x (1 NC + 1 NO)
Contact operation	Slow-break, break before make

Complementary

Switch actuation	On end
Electrical connection	Screw-clamp terminals, clamping capacity: 1 x 0.34...2 x 1.5 mm ²
Contacts insulation form	Zb
Number of steps	1
Positive opening	With
Positive opening minimum force	60 N
Minimum force for tripping	15 N
Minimum actuation speed	6 m/min
Maximum actuation speed	0.5 m/s
Repeat accuracy	0.1 mm on the tripping points with 1 million operating cycles
[I _{th}] conventional enclosed thermal current	10 A AC
[U _i] 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	IEC 60664 6 kV IEC 60947-1 6 kV
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	3000000 cycles
Width	77 mm
Height	81 mm
Depth	36 mm
Product weight	0.4 kg
Terminals description ISO n°1	(13-14)NO (21-22)NC

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

Offer Sustainability

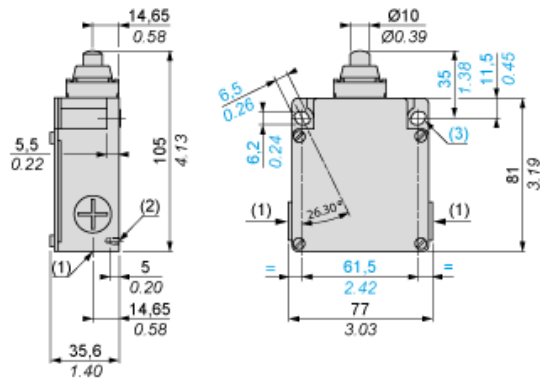
EU RoHS Directive	Not applicable, out of EU RoHS legal scope
Environmental Disclosure	Product Environmental Profile
Circularity Profile	No need of specific recycling operations

Contractual warranty

Warranty	18 months
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Dimensions

mm
in.



- (1) 3 tapped entries for Pg 13.5 cable gland
- (2) 2 centring holes $\text{Ø} 3.9 \pm 0.2$, for cover fixing holes alignment.
- Ø : 2 elongated holes 6.2 x 6.5, inclined at $26^{\circ} 30'$ to the vertical axis, for M5 screws.

Mounting with Cable Entry

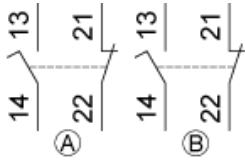
Position of Cable Gland



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

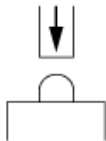
Wiring Diagram

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

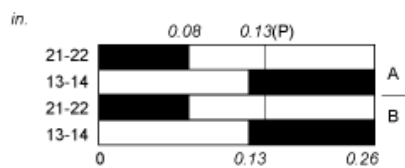
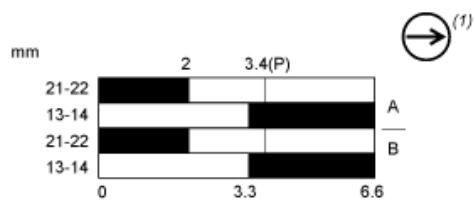


Characteristics of Actuation

Switch Actuation on End



Functionnal Diagram



■ (2)
 □ (3)

- (P) Positive opening point
- (1) NC contact with positive opening operation
- (2) Closed
- (3) Open