Product datasheet
Characteristics

XC1AC121

Main

Range of product	OsiSense XC
Series name	Special format
Product or component type	Limit switch
Product specific application	Materials handling
Device short name	XC1AC
Sensor design	-
Body type	Fixed
Head type	Plunger head
Material	Metal
Fixing mode	By the body
Movement of operating head	Linear
Type of operator	Spring return plunger metal
Switch actuation	On end
Type of approach	Vertical approach 1 direction
Electrical connection	Screw-clamp terminals, 1 x 0.5...1 x 2.5 mm²
Cable entry	3 entries tapped for Pg 13.5 cable gland, cable outer diameter: 0.35...0.47 in (9...12 mm)
Number of poles	2
Contacts type and composition	1 NC + 1 NO
Contact operation	Slow-break, break before make
Number of steps	1
Positive opening	Without
Minimum force for tripping	33 N

Complementary

Contacts insulation form	Zb
Maximum actuation speed	1.64 ft/s (0.5 m/s)
[Ithe] conventional enclosed thermal current	10 A
[Ui] rated insulation voltage	500 V AC IEC 60947-5-1 500 V AC NF C 20-040 600 V DC IEC 60947-5-1 600 V DC NF C 20-040 600 V AC CSA C22.2 No 14 600 V DC CSA C22.2 No 14
Resistance across terminals	<= 8 mOhm
Short-circuit protection	10 A cartridge fuse gG
Electrical durability	1000000 cycles AC-15, 110 V 900 VA, <= 60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C 50/60 Hz, inductive load type 1000000 cycles AC-15, 230 V 1900 VA, <= 60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C 50/60 Hz, inductive load type 1000000 cycles AC-15, 48 V 450 VA, <= 60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C 50/60 Hz, inductive load type 1000000 cycles DC-13, 110 V 100 W, <= 60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C inductive load type 1000000 cycles DC-13, 230 V 95 W, <= 60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C inductive load type 1000000 cycles DC-13, 48 V 100 W, <= 60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C inductive load type 3000000 cycles AC-15, 110 V 350 VA, <= 60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C 50/60 Hz, inductive load type 3000000 cycles AC-15, 230 V 430 VA, <= 60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C 50/60 Hz, inductive load type 3000000 cycles AC-15, 48 V 170 VA, <= 60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C 50/60 Hz, inductive load type 3000000 cycles DC-13, 110 V 40 W, <= 60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C inductive load type

	3000000 cycles DC-13, 230 V 33 W, <= 60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C inductive load type 3000000 cycles DC-13, 48 V 35 W, <= 60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C inductive load type
Mechanical durability	10000000 cycles
Width	3.03 in (77 mm)
Height	5.12 in (130 mm)
Depth	1.73 in (44 mm)
Product weight	1.17 lb(US) (0.53 kg)
Terminals description ISO n°1	(11-12)NC (13-14)NO

Environment

shock resistance	95 gn 11 ms IEC 60068-2-27
vibration resistance	9 gn 10...500 Hz IEC 60068-2-6
IP degree of protection	IP65 IEC 60529 IP65 NF C 20-010
electrical shock protection class	Class I conforming to IEC 61140 Class I conforming to 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
operating position	Any position
product certifications	CSA
standards	EN 60947-5-1 IEC 60337-1 IEC 60947-5-1 VDE 0660-200 CSA C22.2 No 14

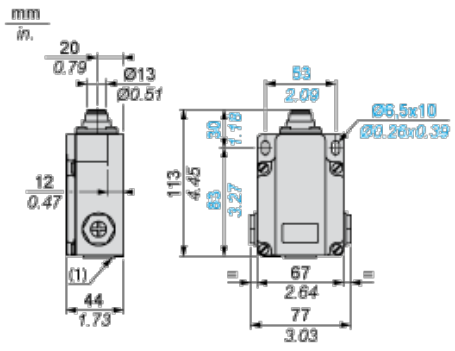
Offer Sustainability

Not Green Premium product	Not Green Premium product
Will not be Compliant	Will not be Compliant
Reference not containing SVHC above the threshold	Reference not containing SVHC above the threshold
Need no specific recycling operations	Need no specific recycling operations
WARNING: This product can expose you to chemicals including:	WARNING: This product can expose you to chemicals including:
Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and	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.	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	For more information go to www.p65warnings.ca.gov

Contractual warranty

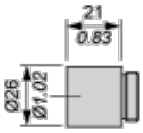
Warranty period	18 months

Dimensions



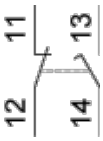
(1) 3 tapped entries for Pg 13.5 cable gland

Adaptator Dimensions for IS0 M20 x 1.5



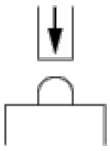
Wiring Diagram

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

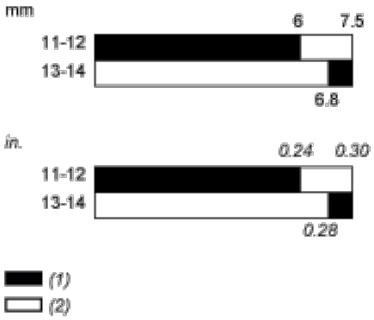


Characteristics of Actuation

Switch Actuation on End



Functionnal Diagram



(1) Closed

(2) Open