

# XCRB121EX

Limit switch, Limit switches XC Standard, XCR, roller lever, 2NC + 2 NO, ATEX/IECEX



## Main

Range of Product	OsiSense ATEX D
Series name	Special format
Product or Component Type	Limit switch
Product Specific Application	For hoisting and mechanical handling applications
Device short name	XCR
Body type	Fixed
Head type	Rotary head
Material	Metal
Fixing Mode	By the body
Movement of operating head	Rotary
Type of operator	Spring return roller lever thermoplastic
Switch actuation	By any moving part
Type of approach	Lateral approach, 2 directions
Electrical connection	Screw-clamp terminals 1 x 0.34...2 x 1.5 mm <sup>2</sup>
Cable entry number	1 tapped entry Pg 13.5 cable gland (included) 0.35...0.47 in (9...12 mm)
Number of poles	4
Contacts type and composition	2 x (1 NC + 1 NO)
Contacts insulation form	Zb
Contact operation	Snap action
Number of steps	1
Contact block per direction [control circuit]	1 per direction
Positive opening	With
Minimum force for tripping	0.75 N
Minimum torque for tripping	3.98 lbf.in (0.45 N.m)
Maximum actuation speed	4.92 ft/s (1.5 m/s)
IP degree of protection	IP65 conforming to IEC 60529

## Complementary

Minimum actuation speed	0.01 m/min
Maximum displacement angle	-55 ° 55 °
Contact code designation	A300, AC-15 (Ue = 240 V), Ie = 3 A EN 60947-5-1 A300, AC-15 (Ue = 240 V), Ie = 3 A IEC 60947-5-1 appendix A Q300, DC-13 (Ue = 250 V), Ie = 0.27 A EN 60947-5-1 Q300, DC-13 (Ue = 250 V), Ie = 0.27 A IEC 60947-5-1 appendix A
[Ui] rated insulation voltage	300 VUL 508 500 VNF C 20-040 group C 500 V 3)IEC 60947-1 500 V 3)VDE 0110
Maximum resistance across terminals	25 MOhm IEC 60255-7 category 3 25 MOhm NF C 93-050 method A
[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, inductive, 120 V, 4 W 3600 cyc/mn 0.5, DC IEC 60947-5-1 appendix C 5000000 Cycles, DC-13, inductive, 24 V, 10 W 3600 cyc/mn 0.5, DC IEC 60947-5-1 appendix C 5000000 cycles, DC-13, inductive, 48 V, 7 W 3600 cyc/mn 0.5, DC IEC 60947-5-1 appendix C
Mechanical durability	10000000 cycles
Marking	II2 D-Ex tb IIIC T85°C Db IP66/67
Width	3.35 in (85 mm)
Height	3.74 in (95 mm)
Depth	2.95 in (75 mm)

## Environment

Shock resistance	68 gn IEC 60068-2-27
Vibration resistance	9 gn 10...500 Hz)IEC 60068-2-6
Electrical shock protection class	Class I IEC 60536 Class I NF C 20-030
Ambient air temperature for operation	-4...140 °F (-20...60 °C)
Protective treatment	TC
Dust zone	Zone 21 - 22
Product Certifications	INERIS 04ATEX0014X IEC-Ex INE 16.0048X
Standards	EN/IEC 60079-31 EN/IEC 60079-0
Directives	2014/34/EU - ATEX directive



## Ordering and shipping details

Category	18407 - WORLD SERVICE PARTS(SENSORS)
Discount Schedule	T
GTIN	3389118027930
Nbr. of units in pkg.	1
Package weight(Lbs)	2.37 lb(US) (1.077 kg)
Returnability	No
Country of origin	FR

## Packing Units

Unit Type of Package 1	PCE
Package 1 Height	3.54 in (9 cm)
Package 1 width	3.54 in (9 cm)
Package 1 Length	9.06 in (23 cm)

## Offer Sustainability

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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
REACH Regulation	 <a href="#">REACH Declaration</a>
EU RoHS Directive	Not applicable, out of EU RoHS legal scope
Environmental Disclosure	 <a href="#">Product Environmental Profile</a>

## Contractual warranty

Warranty	18 months
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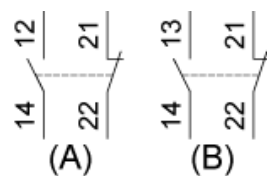
- (1) 1 tapped entry for n° 13 cable gland.
- (2) Rod + roller length: 160 mm.

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## Wiring Diagram

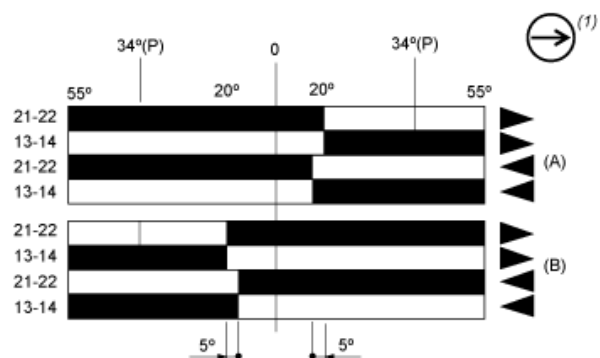
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### Two 2-pole NC + NO Snap Action



- (A) 1<sup>st</sup> contact  
(B) 2<sup>nd</sup> contact

## Functionnal Diagram



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