

XCRB111EX

limit switch XCR - square rod 6 mm - 2NC +
2NO - 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 rod lever metal square rod 6 mm
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 ²
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	22449-LIMIT SWITCHES,ACCESSORIES
Discount Schedule	T
GTIN	03389118027923
Nbr. of units in pkg.	1
Package weight(Lbs)	2.28 lb(US) (1.03 kg)
Returnability	No
Country of origin	FR

Packing Units

Package 1 Height	2.050 dm
Package 1 width	1.000 dm
Package 1 Length	0.820 dm

Offer Sustainability

EU RoHS Directive	Not applicable, out of EU RoHS legal scope
Environmental Disclosure	 Product Environmental Profile

Contractual warranty

Warranty	18 months
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Technical drawing of a 4-axis turntable. The drawing includes a side view on the left and a top view on the right. Dimensions are provided in millimeters (mm) and inches (in.).

Side View Dimensions:

- Top flange diameter: 66 mm (2.60 in.)
- Top flange thickness: 6 mm (0.24 in.)
- Main body diameter: 95 mm (3.74 in.)
- Main body height: 32 mm (1.26 in.)
- Base diameter: 53 mm (2.09 in.)
- Base height: 75 mm (2.95 in.)

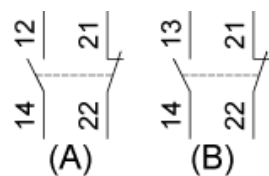
Top View Dimensions:

- Overall width: 85 mm (3.35 in.)
- Overall depth: 85 mm (3.35 in.)
- Distance between mounting holes (center-to-center): 75 mm (2.95 in.)
- Distance from center to mounting hole center: 18 mm (0.71 in.)
- Mounting hole diameter: 4x Ø5.5 (4x Ø0.22)
- Central hole diameter: Ø42 (1.65 in.)

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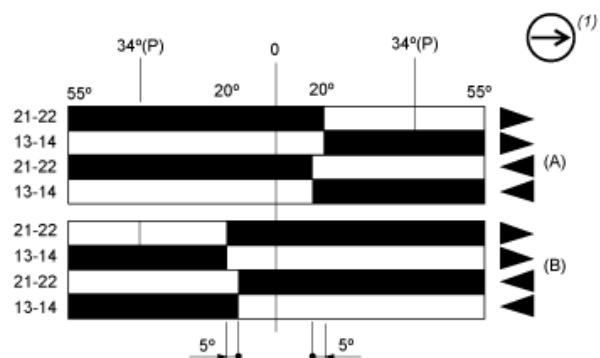
Wiring Diagram

Two 2-pole NC + NO Snap Action



- (A) 1st contact
(B) 2nd contact

Functionnal Diagram



(2) Closed

(3) Open

(4) Tripping

(5) Resetting

(P) Positive opening point

(A) 1st contact

(B) 2nd contact

(1) NC contact with positive opening operation

(2) Closed

(3) Open

(4) Tripping

(5) Resetting

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