

XCRF171EX

Limit switch, Limit switches XC Standard, XCR, square rod 6 mm crossed, 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	Stay put crossed rods lever metal square rod 6 mm
Switch actuation	By any moving part
Type of approach	Lateral approach, 2 directions
Electrical connection	Screw-clamp terminals, clamping capacity: 1 x 0.34...2 x 1.5 mm ²
Cable entry number	1 tapped entry for Pg 13.5 cable gland (included) 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	0.7 N
Minimum torque for tripping	0.6 N.m
Maximum actuation speed	1.5 m/s
IP degree of protection	IP65 conforming to IEC 60529

Complementary

Minimum actuation speed	0.01 m/min
Maximum displacement angle	-90 ° 90 °
Contact code designation	A300, AC-15 (Ue = 240 V), Ie = 3 A conforming to EN 60947-5-1 A300, AC-15 (Ue = 240 V), Ie = 3 A conforming to IEC 60947-5-1 appendix A Q300, DC-13 (Ue = 250 V), Ie = 0.27 A conforming to EN 60947-5-1 Q300, DC-13 (Ue = 250 V), Ie = 0.27 A conforming to IEC 60947-5-1 appendix A
[Ui] rated insulation voltage	300 V conforming to UL 508 500 V conforming to NF C 20-040 group C 500 V (pollution degree 3) conforming to IEC 60947-1 500 V (pollution degree 3) conforming to VDE 0110
Maximum resistance across terminals	25 MOhm conforming to IEC 60255-7 category 3 25 MOhm conforming to NF C 93-050 method A

[Uimp] rated impulse withstand voltage	IEC 60664 6 kV IEC 60947-1 6 kV
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, DC conforming to IEC 60947-5-1 appendix C 5000000 Cycles, DC-13, inductive load type, 24 V, 10 W, operating rate <60 cyc/ mn, load factor: 0.5, DC conforming to IEC 60947-5-1 appendix C 5000000 cycles, DC-13, inductive load type, 48 V, 7 W, operating rate <60 cyc/ mn, load factor: 0.5, DC conforming to IEC 60947-5-1 appendix C
Mechanical durability	10000000 cycles
Marking	II2 D-Ex tb IIIC T85°C Db IP66/67
Width	85 mm
Height	95 mm
Depth	75 mm



Environment

Shock resistance	68 gn conforming to IEC 60068-2-27
Vibration resistance	9 gn (f= 10...500 Hz) conforming to IEC 60068-2-6
Electrical shock protection class	Class I conforming to IEC 60536 Class I conforming to NF C 20-030
Ambient air temperature for operation	-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

Packing Units

Package 1 Weight	1.132 kg
Package 1 Height	14.300 cm
Package 1 width	11.000 cm
Package 1 Length	35.200 cm

Offer Sustainability

REACH Regulation	 REACH Declaration
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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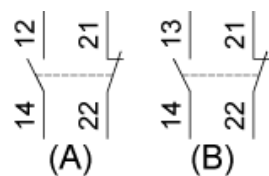
Figure 7 shows the technical drawing of the 600 mm x 600 mm x 95 mm fire-rated door assembly. The drawing includes two views: a side elevation and a top-down view.

- Side Elevation:** Shows the door's profile with a total height of 95 mm and a width of 66 mm. It features a handle with a diameter of Ø6 and a mounting plate with a diameter of Ø0.24. The door has a thickness of 2.60 mm.
- Top-Down View:** Shows the door's footprint with a square shape measuring 85 mm by 85 mm. Key dimensions include:
 - A central circular opening with a diameter of Ø42.
 - Four mounting points labeled "4x Ø5,5" and "4x Ø0.22".
 - A distance of 18 mm from the top edge to the center of the mounting points.
 - A distance of 0.71 mm between the mounting points.
 - A distance of 75 mm between the centers of the mounting points.
 - A distance of 2.95 mm from the bottom edge to the center of the mounting points.
 - A distance of 3.35 mm from the right edge to the center of the mounting points.
 - A distance of 3.35 mm from the left edge to the center of the mounting points.
 - A distance of 3.35 mm from the top edge to the center of the mounting points.
 - A distance of 3.35 mm from the bottom edge to the center of the mounting points.

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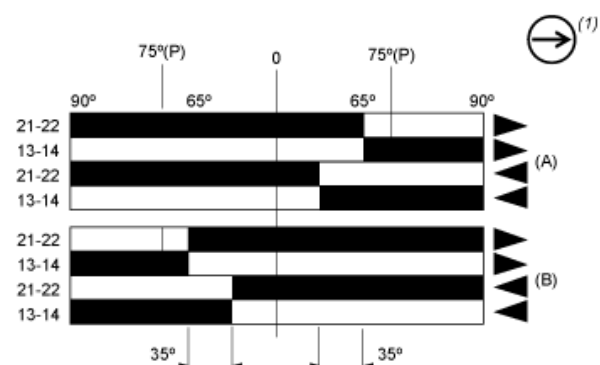
Wiring Diagram

Two 2-pole NC + NO Snap Action



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

Functionnal Diagram



- (2)
- (3)
- ▶ (4)
- ◀ (5)

- (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