

XCRES181EX

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 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]	2 per direction
Positive opening	With
Minimum force for tripping	0.7 N
Minimum torque for tripping	5.31 lbf.in (0.6 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	90 ° -90 °
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

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

[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	3389118027916
Nbr. of units in pkg.	1
Package weight(Lbs)	2.30 lb(US) (1.043 kg)
Returnability	No
Country of origin	FR

Packing Units

Unit Type of Package 1	PCE
Package 1 Height	3.74 in (9.5 cm)
Package 1 width	3.66 in (9.3 cm)
Package 1 Length	9.25 in (23.5 cm)
Unit Type of Package 2	CAR
Number of Units in Package 2	1
Package 2 Weight	2.36 lb(US) (1.07 kg)
Package 2 Height	3.74 in (9.5 cm)
Package 2 width	3.54 in (9 cm)
Package 2 Length	9.06 in (23 cm)
Unit Type of Package 3	S03
Number of Units in Package 3	8
Package 3 Weight	20.44 lb(US) (9.273 kg)
Package 3 Height	11.81 in (30 cm)
Package 3 width	11.81 in (30 cm)
Package 3 Length	15.75 in (40 cm)

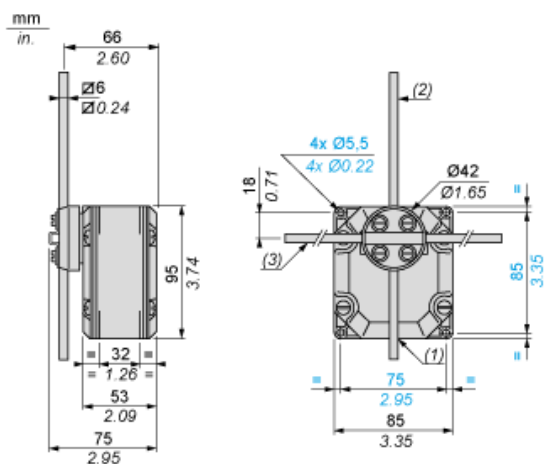
Offer Sustainability

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 www.P65Warnings.ca.gov
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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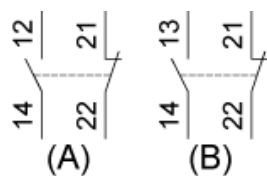
Dimensions



- (1) 1 tapped entry for n° 13 cable gland.
- (2) Rod length: 200 mm.
- (3) Rod length: 200 mm.

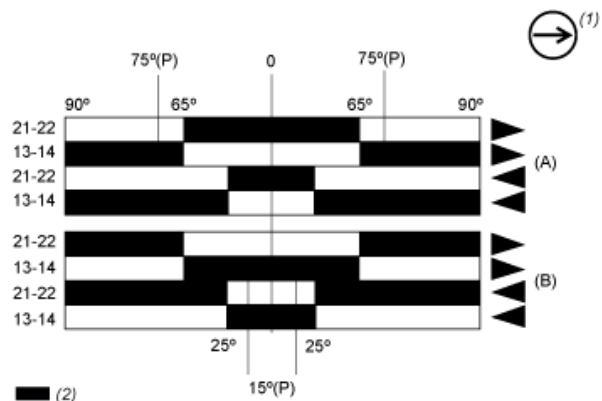
Wiring Diagram

Two 2-pole NC + NO Snap Action



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

Functionnal Diagram



- (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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