

# XCRB151EX

limit switch XCR - roller lever - 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                              | Thermoplastic spring return roller lever, large                                      |
| 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) for cable gland (included), cable outer diameter: 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                   | 0.45 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             | 55 °<br>-55 °  |
| Contact code designation               | A300, AC-15 (240 V, I <sub>e</sub> = 3 A) conforming to EN 60947-5-1<br>A300, AC-15 (240 V, I <sub>e</sub> = 3 A) conforming to IEC 60947-5-1 appendix A<br>Q300, DC-13 (250 V, I <sub>e</sub> = 0.27 A) conforming to EN 60947-5-1<br>Q300, DC-13 (250 V, I <sub>e</sub> = 0.27 A) conforming to IEC 60947-5-1 appendix A |
| [Ui] rated insulation voltage          | 500 V conforming to NF C 20-040 group C<br>500 V, pollution degree: 3 conforming to IEC 60947-1<br>500 V, pollution degree: 3 conforming to VDE 0110<br>300 V conforming to UL 508   |
| Resistance across terminals            | <= 25 MOhm conforming to IEC 60255-7 category 3<br><= 25 MOhm conforming to NF C 93-050 method A   |
| [Uimp] rated impulse withstand voltage | 6 kV conforming to IEC 60664<br>6 kV conforming to IEC 60947-1   |

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|                          |  |
|--------------------------|--|
| Short-circuit protection | 10 A cartridge fuse, type gG   |
| Electrical durability    | 5000000 cycles DC-13 120 V 4 W, <= 3600 cyc/mn load factor: 0.5 conforming to IEC 60947-5-1 appendix C inductive DC<br>5000000 cycles DC-13 24 V 10 W, <= 3600 cyc/mn load factor: 0.5 conforming to IEC 60947-5-1 appendix C inductive DC<br>5000000 cycles DC-13 48 V 7 W, <= 3600 cyc/mn load factor: 0.5 conforming to IEC 60947-5-1 appendix C inductive DC |
| 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 10...500 Hz IEC 60068-2-6                                       |
| Electrical shock protection class     | Class I conforming to IEC 60536<br>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<br>IEC-Ex INE 16.0048X                            |
| Standards                             | EN/IEC 60079-0<br>EN/IEC 60079-31                                    |
| Directives                            | 2014/34/EU - ATEX directive  |

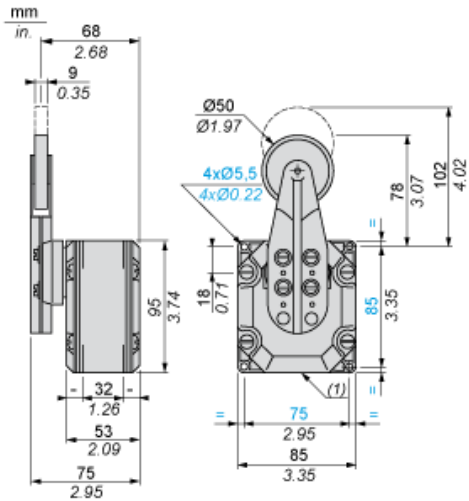
## Offer Sustainability

|                                  |   |
|----------------------------------|---|
| RoHS (date code: YYWW)           | Will not be compliant                             |
| REACH                            | Reference not containing SVHC above the threshold |
| Product end of life instructions | Need no specific recycling operations             |

## Contractual warranty

|                 |                     |
|-----------------|---------------------|
| Warranty period | 18 months 18 months |
|-----------------|---------------------|

## Dimensions



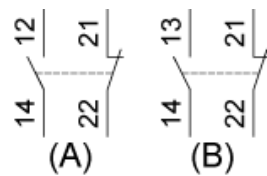
(1) 1 tapped entry for n° 13 cable gland.

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## Wiring Diagram

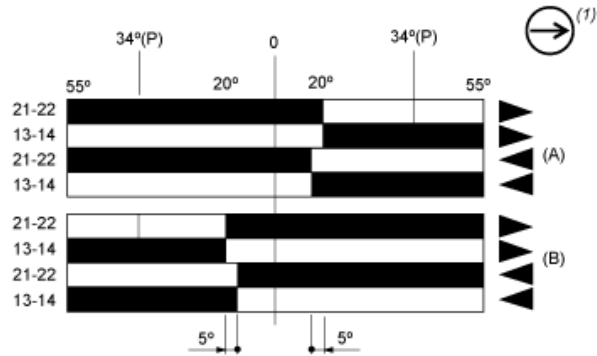
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### Two 2-pole NC + NO Snap Action



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

Functionnal Diagram



- (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