

# XCRA11

Limit switch, Limit switches XC Standard, XCR, metal spring return rod lever square rod 6 mm, 2X(1NC+NO)



## Main

|                                               |                                                                              |
|-----------------------------------------------|------------------------------------------------------------------------------|
| Range of product                              | OsiSense XC                                                                  |
| Series name                                   | Special format                                                               |
| Product or component type                     | Limit switch                                                                 |
| Product specific application                  | For hoisting and mechanical handling applications                            |
| Device short name                             | XCR                                                                          |
| Sensor design                                 | -                                                                            |
| 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                                |
| Type of approach                              | Lateral approach, 2 directions                                               |
| Electrical connection                         | Screw-clamp terminals, clamping capacity: 1 x 0.34...2 x 1.5 mm <sup>2</sup> |
| Number of poles                               | 4                                                                            |
| Contacts type and composition                 | 2 x (1 NC + 1 NO)                                                            |
| Contact operation                             | Snap action                                                                  |
| Contact block per direction [control circuit] | 2 per direction                                                              |
| Positive opening                              | With                                                                         |

## Complementary

|                                        |                                                                                                                                     |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Body material                          | Zinc alloy                                                                                                                          |
| Switch actuation                       | By any moving part                                                                                                                  |
| Cable entry                            | 1 entry tapped for Pg 13.5 cable gland 0.35...0.47 in (9...12 mm) NF C 68-300                                                       |
| Contacts insulation form               | Zb                                                                                                                                  |
| Number of steps                        | 1                                                                                                                                   |
| Positive opening minimum torque        | 6.64 lbf.in (0.75 N.m)                                                                                                              |
| Minimum torque for tripping            | 3.98 lbf.in (0.45 N.m)                                                                                                              |
| Minimum actuation speed                | 0.01 m/min                                                                                                                          |
| Maximum actuation speed                | 4.92 ft/s (1.5 m/s)                                                                                                                 |
| Maximum displacement angle             | 55 °<br>-55 °                                                                                                                       |
| Contact code designation               | A300, AC-15 (Ue = 240 V), Ie = 3 A EN/IEC 60947-5-1 appendix A<br>Q300, DC-13 (Ue = 250 V), Ie = 0.27 A EN/IEC 60947-5-1 appendix A |
| [Ui] rated insulation voltage          | 300 V conforming to UL 508<br>500 V 3)IEC 60947-1<br>500 V 3)VDE 0110<br>300 VCSA C22.2 No 14                                       |
| Maximum resistance across terminals    | 25 MOhm IEC 60255-7 category 3                                                                                                      |
| [Uimp] rated impulse withstand voltage | 6 KV IEC 60664<br>6 kV IEC 60947-1                                                                                                  |
| Short-circuit protection               | 10 A cartridge fuse, type gG                                                                                                        |

|                               |                                                                                                                                                                                                                                                                  |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Electrical durability         | 5000000 Cycles, DC-13, inductive, 120 V, 4 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C<br>5000000 Cycles, DC-13, inductive, 24 V, 7 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C<br>5000000 cycles, DC-13, inductive, 48 V, 10 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C |
| Mechanical durability         | 10000000 cycles                                                                                                                                                                                                                                                  |
| Width                         | 3.35 in (85 mm)                                                                                                                                                                                                                                                  |
| Height                        | 3.74 in (95 mm)                                                                                                                                                                                                                                                  |
| Maximum Depth                 | 2.95 in (75 mm)                                                                                                                                                                                                                                                  |
| Net Weight                    | 2.45 lb(US) (1.11 kg)                                                                                                                                                                                                                                            |
| Terminals description ISO n°1 | (13-14)NO<br>(21-22)NC                                                                                                                                                                                                                                           |

## Environment

|                                       |                                                                                              |
|---------------------------------------|----------------------------------------------------------------------------------------------|
| Shock resistance                      | 68 gn IEC 60068-2-27                                                                         |
| Vibration resistance                  | 9 gn 10...500 Hz)IEC 60068-2-6                                                               |
| IP degree of protection               | IP54 conforming to IEC 60529                                                                 |
| Overvoltage category                  | Class I conforming to IEC 61140<br>Class I NF C 20-030                                       |
| Ambient air temperature for operation | -13...158 °F (-25...70 °C)                                                                   |
| Ambient air temperature for storage   | -40...158 °F (-40...70 °C)                                                                   |
| Protective treatment                  | TC                                                                                           |
| Product certifications                | CSA<br>CCC                                                                                   |
| Standards                             | EN 60947-5-1<br>IEC 60947-5-1<br>EN 60204-1<br>IEC 60204-1<br>CSA C22.2 No 14<br>NF C 79-130 |

## Ordering and shipping details

|                       |                                    |
|-----------------------|------------------------------------|
| Category              | 22449 - LIMIT SWITCHES,ACCESSORIES |
| Discount Schedule     | T                                  |
| GTIN                  | 03389110652000                     |
| Nbr. of units in pkg. | 1                                  |
| Package weight(Lbs)   | 0.36 lb(US) (0.16 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              | 4.72 in (12 cm)         |
| Package 1 Length             | 8.46 in (21.5 cm)       |
| Unit Type of Package 2       | S02                     |
| Number of Units in Package 2 | 5                       |
| Package 2 Weight             | 11.98 lb(US) (5.432 kg) |
| Package 2 Height             | 5.91 in (15 cm)         |
| Package 2 width              | 11.81 in (30 cm)        |
| Package 2 Length             | 15.75 in (40 cm)        |
| Unit Type of Package 3       | P06                     |
| Number of Units in Package 3 | 80                      |
| Package 3 Weight             | 218.92 lb(US) (99.3 kg) |
| Package 3 Height             | 30.31 in (77 cm)        |
| Package 3 width              | 31.50 in (80 cm)        |
| Package 3 Length             | 23.62 in (60 cm)        |

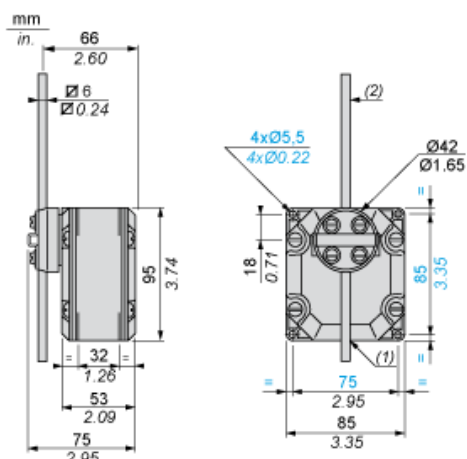
## Offer Sustainability

|                            |                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                                                                                                                                                                                                                                                                             |
| 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          | Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>                                                                                                                                                                                                                                                                                    |
| Mercury free               | Yes                                                                                                                                                                                                                                                                                                                                                                               |
| RoHS exemption information | <a href="#">Yes</a>                                                                                                                                                                                                                                                                                                                                                               |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>                                                                                                                                                                                                                                                                                                                                     |

## Contractual warranty

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

## Dimensions



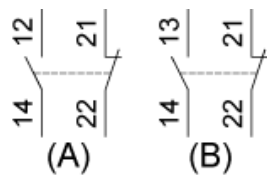
- (1) 1 tapped entry for n° 13 cable gland.  
(2) Rod length: 200 mm.

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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

