# Product data sheet
## Characteristics

# XC1AC148
## limit switch XC1AC - offset roller lever - 2NC - simultaneous




### Main

| | |
|---|---|
| Range of product | OsiSense XC |
| Series name | Special format |
| Product or component type | Limit switch |
| Product specific application | Materials handling |
| Device short name | XC1AC |
| Sensor design | - |
| Body type | Fixed |
| Head type | Plunger head |
| Material | Metal |
| Fixing mode | By the body |
| Movement of operating head | Linear |
| Type of operator | Spring return roller lever metal offset |
| Switch actuation | By 30° cam |
| Type of approach | Lateral approach, 2 directions |
| Electrical connection | Screw-clamp terminals, clamping capacity: 1 x 0.5...1 x 2.5 mm² |
| Cable entry | 3 entries tapped for Pg 13.5 cable gland, cable outer diameter: 9…12 mm |
| Number of poles | 2 |
| Contacts type and composition | 2 NC |
| Contact operation | Slow-break, simultaneous |
| Number of steps | 1 |
| Positive opening | Without |
| Minimum force for tripping | 23 N |

### Complementary

| | |
|---|---|
| Contacts insulation form | Zb |
| Maximum actuation speed | 1 M/S from left<br>0.5 m/s from right |
| [Ithe] conventional enclosed thermal current | 10 A |
| [Ui] rated insulation voltage | 500 V AC conforming to IEC 60947-5-1<br>500 V AC conforming to NF C 20-040<br>600 V DC conforming to IEC 60947-5-1<br>600 V DC conforming to NF C 20-040<br>600 V AC conforming to CSA C22.2 No 14<br>600 V DC conforming to CSA C22.2 No 14 |
| Maximum resistance across terminals | 8 mOhm |
| Short-circuit protection | 10 A cartridge fuse, type gG |

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.
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| | |
|---|---|
| Electrical durability | 1000000 Cycles, AC-15 f = 50/60 Hz, inductive load type, 110 V, 900 VA, operating rate <60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C<br>1000000 Cycles, AC-15 f = 50/60 Hz, inductive load type, 230 V, 1900 VA, operating rate <60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C<br>1000000 Cycles, AC-15 f = 50/60 Hz, inductive load type, 48 V, 450 VA, operating rate <60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C<br>1000000 Cycles, DC-13, inductive load type, 110 V, 100 W, operating rate <60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C<br>1000000 Cycles, DC-13, inductive load type, 230 V, 95 W, operating rate <60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C<br>1000000 Cycles, DC-13, inductive load type, 48 V, 100 W, operating rate <60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C<br>3000000 Cycles, AC-15 f = 50/60 Hz, inductive load type, 110 V, 350 VA, operating rate <60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C<br>3000000 Cycles, AC-15 f = 50/60 Hz, inductive load type, 230 V, 430 VA, operating rate <60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C<br>3000000 Cycles, AC-15 f = 50/60 Hz, inductive load type, 48 V, 170 VA, operating rate <60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C<br>3000000 Cycles, DC-13, inductive load type, 110 V, 40 W, operating rate <60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C<br>3000000 Cycles, DC-13, inductive load type, 230 V, 33 W, operating rate <60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C<br>3000000 cycles, DC-13, inductive load type, 48 V, 35 W, operating rate <60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C |
| Mechanical durability | 10000000 cycles |
| Width | 77 mm |
| Height | 157 mm |
| Depth | 44 mm |
| Net weight | 0.87 kg |
| Terminals description ISO n°1 | (11-12)NC<br>(21-22)NC |

## Environment

| | |
|---|---|
| Shock resistance | 95 gn for 11 ms conforming to IEC 60068-2-27 |
| Vibration resistance | 9 gn (f= 10…500 Hz) conforming to IEC 60068-2-6 |
| IP degree of protection | IP65 conforming to IEC 60529<br>IP65 conforming to NF C 20-010 |
| Electrical shock protection class | Class I conforming to IEC 61140<br>Class I conforming to NF C 20-030 |
| Ambient air temperature for operation | -25…70 °C |
| Ambient air temperature for storage | -40…70 °C |
| Protective treatment | TC |
| Operating position | Any position |
| Product certifications | CSA |
| Standards | IEC 60337-1<br>CSA C22.2 No 14<br>EN 60947-5-1<br>IEC 60947-5-1<br>VDE 0660-200 |

## Packing Units

| | |
|---|---|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Weight | 640 g |
| Package 1 Height | 5.5 cm |
| Package 1 width | 9 cm |
| Package 1 Length | 15.5 cm |

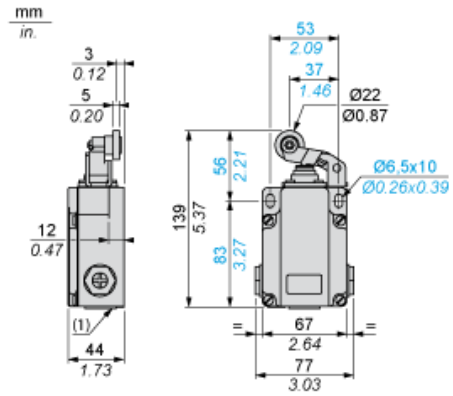
## Offer Sustainability

| | |
|---|---|
| REACh Regulation | REACh Declaration |
| EU RoHS Directive | Not applicable, out of EU RoHS legal scope |
| Environmental Disclosure | Product Environmental Profile |

## Contractual warranty

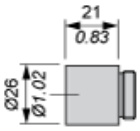
| | |
|---|---|
| Warranty | 18 months |

## Dimensions



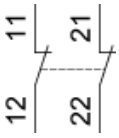

(1) 3 tapped entries for Pg 13.5 cable gland

## Adaptator Dimensions for IS0 M20 x 1.5



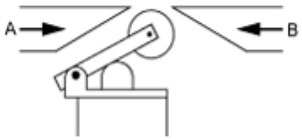
## Wiring Diagram

### 2-pole NC + NC Simultaneous, Slow Break

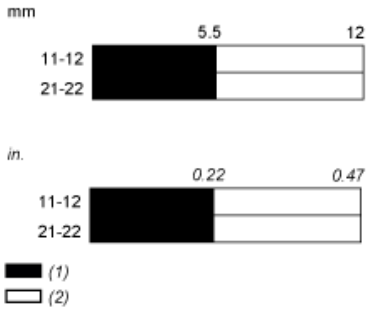


## Characteristics of Actuation

### Switch Actuation by 30° Cam




## Functionnal Diagram




(1) Closed
(2) Open