

# XC1AC146

limit switch XC1AC - 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 -                                          |
| 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 mm <sup>2</sup> |
| 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                                   | 0.5 m/s                                                                                                                                                                                                                                      |
| [I <sub>the</sub> ] conventional enclosed thermal current | 10 A                                                                                                                                                                                                                                         |
| [U <sub>i</sub> ] 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                                                                                                                                                                                                                 |

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Electrical durability         | <p>1000000 Cycles, AC-15 f = 50/60 Hz, inductive load type, 110 V, 900 VA, operating rate &lt;60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C</p> <p>1000000 Cycles, AC-15 f = 50/60 Hz, inductive load type, 230 V, 1900 VA, operating rate &lt;60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C</p> <p>1000000 Cycles, AC-15 f = 50/60 Hz, inductive load type, 48 V, 450 VA, operating rate &lt;60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C</p> <p>1000000 Cycles, DC-13, inductive load type, 110 V, 100 W, operating rate &lt;60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C</p> <p>1000000 Cycles, DC-13, inductive load type, 230 V, 95 W, operating rate &lt;60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C</p> <p>1000000 Cycles, DC-13, inductive load type, 48 V, 100 W, operating rate &lt;60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C</p> <p>3000000 Cycles, AC-15 f = 50/60 Hz, inductive load type, 110 V, 350 VA, operating rate &lt;60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C</p> <p>3000000 Cycles, AC-15 f = 50/60 Hz, inductive load type, 230 V, 430 VA, operating rate &lt;60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C</p> <p>3000000 Cycles, AC-15 f = 50/60 Hz, inductive load type, 48 V, 170 VA, operating rate &lt;60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C</p> <p>3000000 Cycles, DC-13, inductive load type, 110 V, 40 W, operating rate &lt;60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C</p> <p>3000000 Cycles, DC-13, inductive load type, 230 V, 33 W, operating rate &lt;60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C</p> <p>3000000 cycles, DC-13, inductive load type, 48 V, 35 W, operating rate &lt;60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C</p> |
| Mechanical durability         | 10000000 cycles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Width                         | 77 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Height                        | 130 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Depth                         | 44 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Net weight                    | 0.53 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Terminals description ISO n°1 | (21-22)NC<br>(11-12)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>VDE 0660-200<br>EN 60947-5-1<br>IEC 60947-5-1 |

## Packing Units

|                              |          |
|------------------------------|----------|
| Unit Type of Package 1       | PCE      |
| Number of Units in Package 1 | 1        |
| Package 1 Weight             | 623 g    |
| Package 1 Height             | 5.3 cm   |
| Package 1 width              | 9.2 cm   |
| Package 1 Length             | 15.1 cm  |
| Unit Type of Package 2       | S02      |
| Number of Units in Package 2 | 8        |
| Package 2 Weight             | 5.322 kg |

|                  |       |
|------------------|-------|
| Package 2 Height | 15 cm |
| Package 2 width  | 30 cm |
| Package 2 Length | 40 cm |

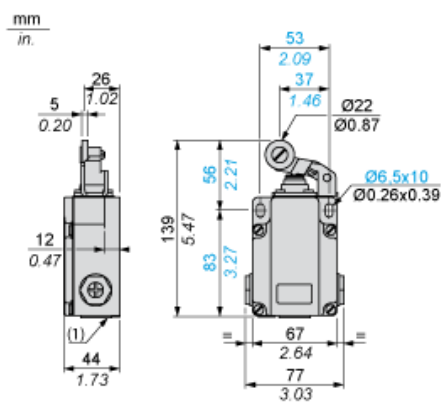
### Offer Sustainability

|                            |                                                                                                                                                                                    |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                                                                              |
| 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

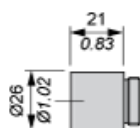
|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

## Dimensions



(1) 3 tapped entries for Pg 13.5 cable gland

## Adaptator Dimensions for ISO M20 x 1.5

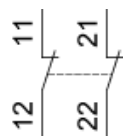


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## Wiring Diagram

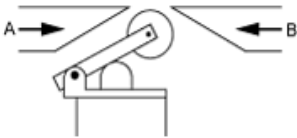
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2-pole NC + NC Simultaneous, Slow Break



Characteristics of Actuation

Switch Actuation by 30° Cam



Functionnal Diagram

