

# XC1AC146H2

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 1 x 0.5...1 x 2.5 mm <sup>2</sup>             |
| Cable entry                   | 3 entries tapped for Pg 13.5 cable gland 0.35...0.47 in (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                                  | 1.64 ft/s (0.5 m/s)                                                                                                                                |
| [I <sub>th</sub> ] conventional enclosed thermal current | 10 A                                                                                                                                               |
| [U <sub>i</sub> ] rated insulation voltage               | 500 V ACIEC 60947-5-1<br>500 V ACNF C 20-040<br>600 V DCIEC 60947-5-1<br>600 V DCNF C 20-040<br>600 V ACCSA C22.2 No 14<br>600 V DCCSA C22.2 No 14 |
| Maximum resistance across terminals                      | 8 mOhm                                                                                                                                             |
| Short-circuit protection                                 | 10 A cartridge fuse 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. Neither TWSS Holding nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

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|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Electrical durability         | 1000000 Cycles, AC-15 50/60 Hz, inductive, 110 V, 900 VA 60 cyc/mn 0.5 IEC 60947-5-1 appendix C<br>1000000 Cycles, AC-15 50/60 Hz, inductive, 230 V, 1900 VA 60 cyc/mn 0.5 IEC 60947-5-1 appendix C<br>1000000 Cycles, AC-15 50/60 Hz, inductive, 48 V, 450 VA 60 cyc/mn 0.5 IEC 60947-5-1 appendix C<br>1000000 Cycles, DC-13, inductive, 110 V, 100 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C<br>1000000 Cycles, DC-13, inductive, 230 V, 95 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C<br>1000000 Cycles, DC-13, inductive, 48 V, 100 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C<br>3000000 Cycles, AC-15 50/60 Hz, inductive, 110 V, 350 VA 60 cyc/mn 0.5 IEC 60947-5-1 appendix C<br>3000000 Cycles, AC-15 50/60 Hz, inductive, 230 V, 430 VA 60 cyc/mn 0.5 IEC 60947-5-1 appendix C<br>3000000 Cycles, AC-15 50/60 Hz, inductive, 48 V, 170 VA 60 cyc/mn 0.5 IEC 60947-5-1 appendix C<br>3000000 Cycles, DC-13, inductive, 110 V, 40 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C<br>3000000 Cycles, DC-13, inductive, 230 V, 33 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C<br>3000000 cycles, DC-13, inductive, 48 V, 35 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C |
| Mechanical durability         | 10000000 cycles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Width                         | 3.03 in (77 mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Height                        | 5.12 in (130 mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Depth                         | 1.73 in (44 mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Net Weight                    | 1.17 lb(US) (0.53 kg)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Terminals description ISO n°1 | (11-12)NC<br>(21-22)NC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

## Environment

|                                       |                                                                                 |
|---------------------------------------|---------------------------------------------------------------------------------|
| Shock resistance                      | 95 gn 11 ms IEC 60068-2-27                                                      |
| Vibration resistance                  | 9 gn 10...500 Hz)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 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                                                                              |
| Operating position                    | Any position                                                                    |
| Product Certifications                | CSA                                                                             |
| Standards                             | CSA C22.2 No 14<br>IEC 60947-5-1<br>EN 60947-5-1<br>IEC 60337-1<br>VDE 0660-200 |

## Ordering and shipping details

|                   |                                    |
|-------------------|------------------------------------|
| Category          | 18407-WORLD SERVICE PARTS(SENSORS) |
| Discount Schedule | T                                  |
| GTIN              | 3389118123861                      |
| Returnability     | No                                 |

## Packing Units

|                              |     |
|------------------------------|-----|
| Unit Type of Package 1       | PCE |
| Number of Units in Package 1 | 1   |

## Contractual warranty

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