

# XC1AC121

limit switch XC1AC - end plunger - 1NC+1NO -  
break before make



## 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 plunger metal                                               |
| Switch actuation              | On end                                                                    |
| Type of approach              | Vertical approach 1 direction                                             |
| 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, cable outer diameter: 9...12 mm |
| Number of poles               | 2                                                                         |
| Contacts type and composition | 1 NC + 1 NO                                                               |
| Contacts operation            | Slow-break, break before make                                             |
| Number of steps               | 1                                                                         |
| Positive opening              | Without                                                                   |
| Minimum force for tripping    | 33 N                                                                      |

## Complementary

|                                              |                                                                                                                                                          |
|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Contacts insulation form                     | Zb                                                                                                                                                       |
| Maximum actuation speed                      | 0.5 m/s                                                                                                                                                  |
| [Ithe] conventional enclosed thermal current | 10 A                                                                                                                                                     |
| [Ui] rated insulation voltage                | 600 V DC CSA C22.2 No 14<br>600 V AC CSA C22.2 No 14<br>600 V DC NF C 20-040<br>600 V DC IEC 60947-5-1<br>500 V AC NF C 20-040<br>500 V AC IEC 60947-5-1 |
| 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 products of the company Schneider Electric. This information is not intended 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 Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Electrical durability         | 3000000 cycles DC-13, 48 V 35 W, <= 60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C inductive load type<br>3000000 cycles DC-13, 230 V 33 W, <= 60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C inductive load type<br>3000000 cycles DC-13, 110 V 40 W, <= 60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C inductive load type<br>3000000 cycles AC-15, 48 V 170 VA, <= 60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C 50/60 Hz, inductive load type<br>3000000 cycles AC-15, 230 V 430 VA, <= 60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C 50/60 Hz, inductive load type<br>3000000 cycles AC-15, 110 V 350 VA, <= 60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C 50/60 Hz, inductive load type<br>1000000 cycles DC-13, 48 V 100 W, <= 60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C inductive load type<br>1000000 cycles DC-13, 230 V 95 W, <= 60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C inductive load type<br>1000000 cycles DC-13, 110 V 100 W, <= 60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C inductive load type<br>1000000 cycles AC-15, 48 V 450 VA, <= 60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C 50/60 Hz, inductive load type<br>1000000 cycles AC-15, 230 V 1900 VA, <= 60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C 50/60 Hz, inductive load type<br>1000000 cycles AC-15, 110 V 900 VA, <= 60 cyc/mn, load factor: 0.5 conforming to IEC 60947-5-1 appendix C 50/60 Hz, inductive load type |
| Mechanical durability         | 10000000 cycles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Width                         | 77 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Height                        | 130 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Depth                         | 44 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Product weight                | 0.53 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Terminals description ISO n°1 | (11-12)NC<br>(13-14)NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

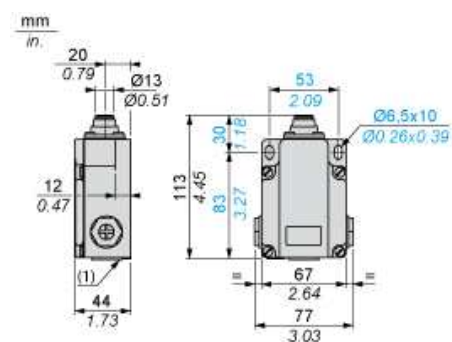
## Environment

|                                            |                                                                                 |
|--------------------------------------------|---------------------------------------------------------------------------------|
| 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 NF C 20-010<br>IP65 IEC 60529                                              |
| Class of protection against electric shock | Class I conforming to NF C 20-030<br>Class I conforming to IEC 61140            |
| 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                                  | EN 60947-5-1<br>IEC 60337-1<br>IEC 60947-5-1<br>VDE 0660-200<br>CSA C22.2 No 14 |

## Offer Sustainability

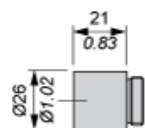
|                                  |                                                                                                                                              |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status         | Not Green Premium product                                                                                                                    |
| RoHS (date code: YYWW)           | Will be Compliant on 4Q2013                                                                                                                  |
| REACH                            | Reference not containing SVHC above the threshold                                                                                            |
| Product environmental profile    | Available  <a href="#">Download Product Environmental</a> |
| Product end of life instructions | Need no specific recycling operations                                                                                                        |

## Dimensions



(1) 3 tapped entries for Pg 13.5 cable gland

## Adaptator Dimensions for ISO M20 x 1.5

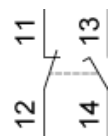


---

## Wiring Diagram

---

2-pole NC + NO Break Before Make, Slow Break

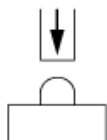


---

## Characteristics of Actuation

---

### Switch Actuation on End



---

## Functionnal Diagram

---



■ (1)  
□ (2)

(1) Closed  
(2) Open