

# XMLA002B2C11

pressure switch XMLA 2.5 bar - fixed scale 1  
threshold - 1 C/O



## Main

|                                                         |                                                                                                                                                                                                  |
|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range of product                                        | OsiSense XM                                                                                                                                                                                      |
| Product or component type                               | Electromechanical pressure sensor                                                                                                                                                                |
| Pressure sensor type                                    | Electromechanical pressure sensor                                                                                                                                                                |
| Device short name                                       | XMLA                                                                                                                                                                                             |
| Pressure sensor size                                    | 2.5 bar                                                                                                                                                                                          |
| Controlled fluid                                        | Air (0...160 °C)<br>Fresh water (0...160 °C)<br>Hydraulic oil (0...160 °C)                                                                                                                       |
| Fluid connection type                                   | G 1/4 (female) conforming to ISO 228                                                                                                                                                             |
| Electrical connection                                   | 1 male connector EN 175301-803-A (ex DIN43650)<br>4 pins                                                                                                                                         |
| Contacts type and composition                           | 1 C/O                                                                                                                                                                                            |
| Product specific application                            | -                                                                                                                                                                                                |
| Pressure switch type of operation                       | Detection of 1 single threshold                                                                                                                                                                  |
| Electrical circuit type                                 | Control circuit                                                                                                                                                                                  |
| Scale type                                              | Fixed differential                                                                                                                                                                               |
| Local display                                           | With                                                                                                                                                                                             |
| Adjustable range of switching point on rising pressure  | 0.15...2.5 bar                                                                                                                                                                                   |
| Adjustable range of switching point on falling pressure | 0.02...2.37 bar                                                                                                                                                                                  |
| Maximum permissible accidental pressure                 | 9 bar                                                                                                                                                                                            |
| Destruction pressure                                    | 18 bar                                                                                                                                                                                           |
| Pressure actuator                                       | Diaphragm                                                                                                                                                                                        |
| Materials in contact with fluid                         | FPM, FKM<br>Steel                                                                                                                                                                                |
| Enclosure material                                      | Zinc alloy                                                                                                                                                                                       |
| [In] rated current                                      | 3 A, B300, AC-15 (Ue = 120 V) conforming to EN/IEC 60947-5-1<br>1.5 A, B300, AC-15 (Ue = 240 V) conforming to EN/IEC 60947-5-1<br>0.1 A, R300, DC-13 (Ue = 250 V) conforming to EN/IEC 60947-5-1 |

## Complementary

|                                          |                                                                                                         |
|------------------------------------------|---------------------------------------------------------------------------------------------------------|
| Natural differential at low setting      | 0.13 bar (+/- 0.03 bar)                                                                                 |
| Natural differential at high setting     | 0.13 bar (+/- 0.03 bar)                                                                                 |
| Maximum permissible pressure - per cycle | 5 bar                                                                                                   |
| Operating rate                           | <= 120 cyc/mn at > 0 °C                                                                                 |
| Repeat accuracy                          | < 2 %                                                                                                   |
| [Ui] rated insulation voltage            | 300 V conforming to UL 508<br>500 V conforming to EN/IEC 60947-1<br>300 V conforming to CSA C22.2 No 14 |
| [Uimp] rated impulse withstand voltage   | 6 kV conforming to EN/IEC 60947-1                                                                       |

|                              |                                                                                              |
|------------------------------|----------------------------------------------------------------------------------------------|
| Auxiliary contacts operation | Snap action                                                                                  |
| Contacts material            | Silver contacts                                                                              |
| Resistance across terminals  | < 25 mOhm conforming to IEC 255-7 category 3<br>< 25 mOhm conforming to NF C 93-050 method A |
| Short circuit protection     | 10 A cartridge fuse type gG (gl)                                                             |
| Mechanical durability        | 8000000 cycles                                                                               |
| Setting                      | External                                                                                     |
| Height                       | 158 mm                                                                                       |
| Depth                        | 77.5 mm                                                                                      |
| Width                        | 35 mm                                                                                        |
| Product weight               | 1.01 kg                                                                                      |

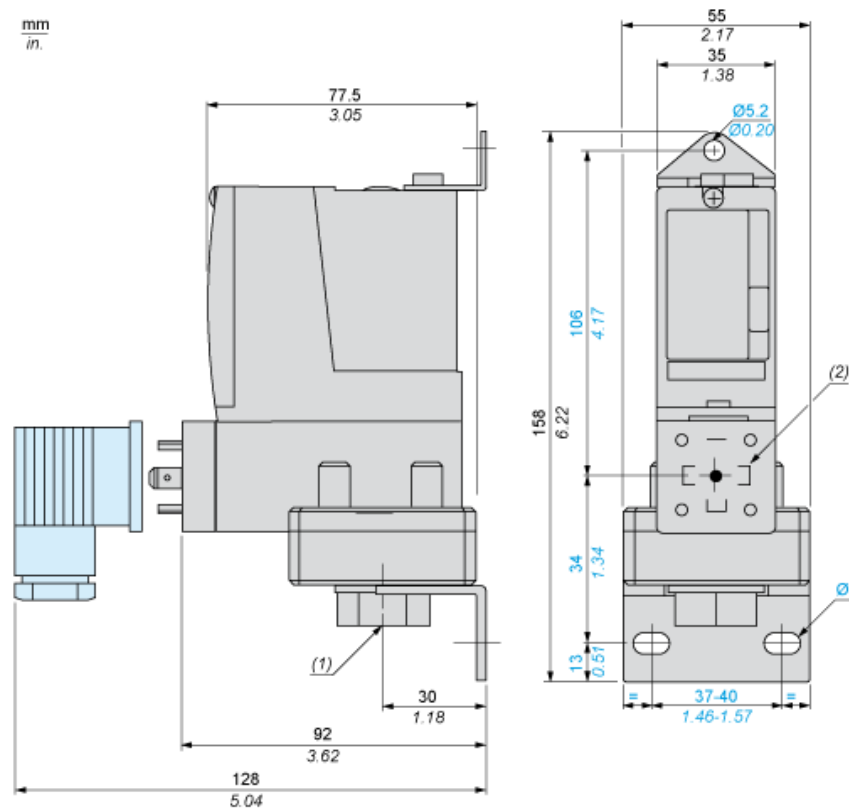
## Environment

|                                            |                                                                                                      |
|--------------------------------------------|------------------------------------------------------------------------------------------------------|
| Standards                                  | CE<br>EN/IEC 60947-5-1<br>UL 508<br>CSA C22.2 No 14                                                  |
| Product certifications                     | BV<br>CCC<br>CSA<br>LROS (Lloyds register of shipping)<br>UL<br>EAC                                  |
| Protective treatment                       | TC (standard version)                                                                                |
| Ambient air temperature for operation      | -25...70 °C                                                                                          |
| Ambient air temperature for storage        | -40...70 °C                                                                                          |
| Operating position                         | Any position                                                                                         |
| Vibration resistance                       | 4 gn (f = 30...500 Hz) conforming to IEC 60068-2-6                                                   |
| Shock resistance                           | 50 gn conforming to IEC 60068-2-27                                                                   |
| Class of protection against electric shock | Class I conforming to IEC 1140<br>Class I conforming to IEC 536<br>Class I conforming to NF C 20-030 |
| IP degree of protection                    | IP65 conforming to EN/IEC 60529                                                                      |

## Offer Sustainability

|                                  |                                                                                       |
|----------------------------------|---------------------------------------------------------------------------------------|
| Sustainable offer status         | Green Premium product                                                                 |
| RoHS (date code: YYWW)           | Compliant - since 0928 - <a href="#">Schneider Electric declaration of conformity</a> |
| REACH                            | Reference not containing SVHC above the threshold                                     |
| Product end of life instructions | Need no specific recycling operations                                                 |

## Dimensions



(1) 1 fluid entry, tapped G1/4 (BSP female)

(2) EN 175301-803-A connector

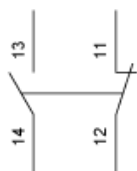
Ø : 2 elongated holes Ø 10.2 x 5.2

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## Wiring Diagram

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### Terminal Model

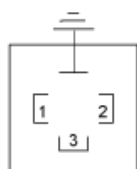


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## Wiring Diagram

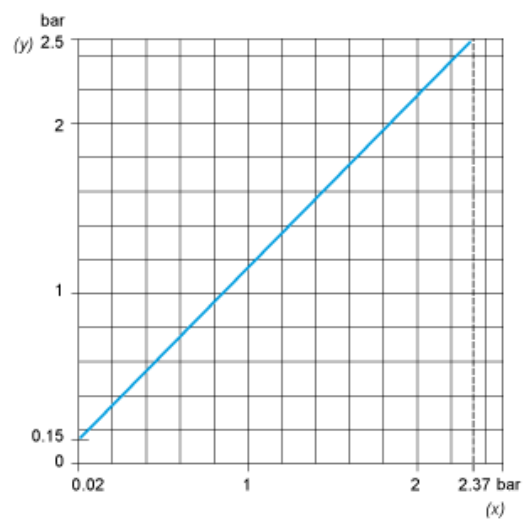
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### Vacuum Switch Connector Pin View

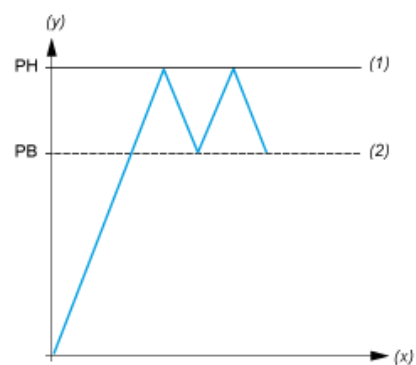


- (1) 11 and 13
- (2) 12
- (3) 14

## Operating Curves



(y) Rising pressure  
(x) Falling pressure



(y) Pressure  
(x) Time  
(1) Adjustable value  
(2) Non adjustable value  
PH : High point  
PB : Below point