



## Main

|   |  |
|---|--|
| Range of product  | OsiSense XM  |
| Product or component type                               | Electromechanical pressure sensor  |
| Pressure sensor type                                    | Electromechanical vacuum sensor  |
| Device short name                                       | XMLA   |
| Pressure sensor size                                    | -1 bar   |
| Controlled fluid  | Hydraulic oil (0...70 °C)<br>Fresh water (0...70 °C)<br>Air (0...70 °C)  |
| Fluid connection type                                   | PT 1/4 (female)  |
| Electrical connection                                   | Screw-clamps terminals 1 x 0.5...2 x 2.5 mm <sup>2</sup>   |
| AWG gauge   | AWG 20...AWG 14  |
| Cable entry number                                      | 1 tapped entry (1/2" PF) forcable gland , cable outer diameter: 7...13 mm  |
| 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  | -0.76...-0.04 bar  |
| Adjustable range of switching point on falling pressure | -1...-0.28 bar   |
| Maximum permissible accidental pressure                 | 9 bar  |
| Destruction pressure                                    | 18 bar   |
| Pressure actuator                                       | Diaphragm  |
| Materials in contact with fluid                         | Nitrile<br>Zinc alloy<br>304L stainless steel  |
| Enclosure material                                      | Zinc alloy   |
| [In] rated current                                      | 0.1 A, R300, DC-13 (Ue = 250 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>3 A, B300, AC-15 (Ue = 120 V) conforming to EN/IEC 60947-5-1 |

## Complementary

|  |                         |
|--|-------------------------|
| Natural differential at low setting      | 0.24 bar (+/- 0.05 bar) |
| Natural differential at high setting     | 0.24 bar (+/- 0.05 bar) |
| Maximum permissible pressure - per cycle | 5 bar                   |
| Terminal block type                      | 4 terminals             |
| Operating rate                           | <= 120 cyc/mn at > 0 °C |
| Repeat accuracy                          | < 2 %                   |

|  |   |
|--|---|
| [Ui] rated insulation voltage          | 300 V conforming to CSA C22.2 No 14<br>500 V conforming to EN/IEC 60947-1<br>300 V conforming to UL 508 |
| [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 NF C 93-050 method A<br>< 25 mOhm conforming to IEC 255-7 category 3            |
| Short circuit protection               | 10 A cartridge fuse type gG (gl)  |
| Mechanical durability                  | 3000000 cycles  |
| Setting                                | External  |
| Height                                 | 113 mm  |
| Depth                                  | 75 mm   |
| Width                                  | 35 mm   |
| Product weight                         | 0.685 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 NF C 20-030<br>Class I conforming to IEC 536<br>Class I conforming to IEC 1140 |
| IP degree of protection                    | IP66 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 environmental profile    | Available <a href="#">Download Product Environmental</a>                              |
| Product end of life instructions | Need no specific recycling operations   |

Dimensions



- (1) 1 fluid entry, tapped PT 1/4 (JIS B0203)
- (2) 1 electrical connections entry, tapped 1/2" PF (JIS B0202)
- Ø : 2 elongated holes Ø 5.2 x 6.7

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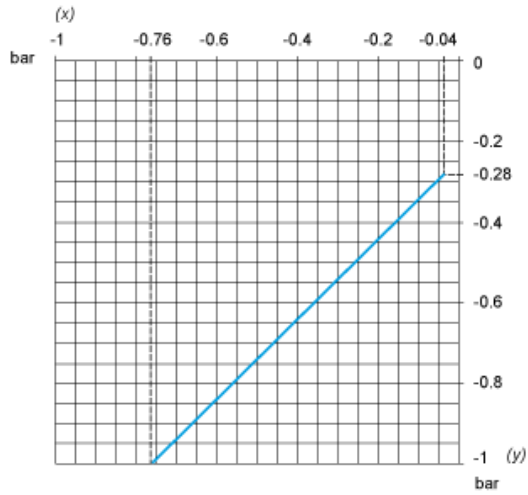
Wiring Diagram

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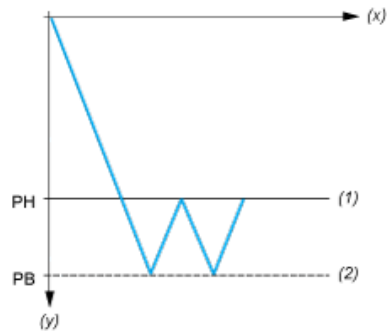
Terminal Model



Operating Curves



- (x) Rising pressure
- (y) Falling pressure



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