

# XMLA004A2S11

Electromechanical pressure sensor, Pressure sensors XM, switch XMLA 4 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 Rating   | 58.02 psi (4 bar)   |
| Controlled fluid  | Air 32... 158 °F (0...70 °C)<br>Fresh water 32... 158 °F (0...70 °C)<br>Hydraulic oil 32... 158 °F (0...70 °C)  |
| Fluid connection type                                   | G 1/4 (female) ISO 228  |
| Electrical connection                                   | Screw-clamps terminals, 1 x 0.5...2 x 2.5 mm <sup>2</sup><br>1 connector Pg 13  |
| AWG gauge   | AWG 20...AWG 14   |
| Cable entry   | Cable gland 0.35...0.51 in (9...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  | 5.80...58.02 psi (0.4...4 bar)  |
| Adjustable range of switching point on falling pressure | 0.73...52.94 psi (0.05...3.65 bar)  |
| Maximum permissible accidental pressure                 | 130.53 psi (9 bar)  |
| Destruction pressure                                    | 261.07 psi (18 bar)   |
| Pressure actuator                                       | Diaphragm   |
| Materials in contact with fluid                         | FPM, FKM<br>Zinc alloy  |
| Enclosure Material                                      | Zinc alloy  |
| Line Rated Current                                      | 3 A, B300, AC-15 (U <sub>e</sub> = 120 V)EN/IEC 60947-5-1<br>1.5 A, B300, AC-15 (U <sub>e</sub> = 240 V)EN/IEC 60947-5-1<br>0.1 A, R300, DC-13 (U <sub>e</sub> = 250 V)EN/IEC 60947-5-1 |

## Complementary

|  |   |
|--|---|
| Natural differential at low setting      | 5.08 psi (0.35 bar) +/- 0.03 bar                              |
| Natural differential at high setting     | 5.08 psi (0.35 bar) +/- 0.03 bar                              |
| Maximum permissible pressure - per cycle | 72.52 psi (5 bar)   |
| Terminal block type                      | 4 terminals   |
| Maximum operating rate                   | 120 cyc/mn  |
| Repeat accuracy                          | 2 %   |
| [Ui] rated insulation voltage            | 300 V UL 508<br>500 V EN/IEC 60947-1<br>300 V CSA C22.2 No 14 |

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|  |  |
|--|--|
| [Uimp] rated impulse withstand voltage | 6 kV EN/IEC 60947-1  |
| Auxiliary contacts operation           | Snap action  |
| Contacts material                      | Silver contacts  |
| Maximum resistance across terminals    | 25 MOhm IEC 255-7 category 3<br>25 mOhm NF C 93-050 method A |
| Short-circuit protection               | 10 A cartridge fuse gG (gl)                                  |
| Mechanical durability                  | 8000000 cycles   |
| Setting                                | External   |
| Height                                 | 4.45 in (113 mm)   |
| Depth                                  | 2.95 in (75 mm)  |
| Width                                  | 1.38 in (35 mm)  |
| Net Weight                             | 1.51 lb(US) (0.685 kg)                                       |

## Environment

|                                       |   |
|---------------------------------------|---|
| Standards                             | CSA C22.2 No 14<br>EN/IEC 60947-5-1<br>UL 508<br>CE                 |
| Product Certifications                | EAC<br>UL<br>BV<br>CCC<br>CSA<br>LROS (Lloyds register of shipping) |
| Protective treatment                  | TC standard version   |
| Ambient air temperature for operation | -13...158 °F (-25...70 °C)  |
| Ambient Air Temperature for Storage   | -40...158 °F (-40...70 °C)  |
| Operating position                    | Any position  |
| Vibration resistance                  | 4 gn 30...500 Hz)IEC 60068-2-6                                      |
| Shock resistance                      | 50 gn IEC 60068-2-27  |
| Electrical shock protection class     | Class I IEC 1140<br>Class I IEC 536<br>Class I NF C 20-030          |
| IP degree of protection               | IP66 conforming to EN/IEC 60529                                     |

## Ordering and shipping details

|                       |                                      |
|-----------------------|--------------------------------------|
| Category              | 22661 - XMLA,B,C,D PRESSURE SWITCHES |
| Discount Schedule     | DS2                                  |
| GTIN                  | 3389110711349                        |
| Nbr. of units in pkg. | 1                                    |
| Package weight(Lbs)   | 24.34 oz (689.9 g)                   |
| Returnability         | Yes                                  |
| Country of origin     | CZ                                   |

## Packing Units

|                              |                         |
|------------------------------|-------------------------|
| Unit Type of Package 1       | PCE                     |
| Package 1 Height             | 1.65 in (4.2 cm)        |
| Package 1 width              | 4.92 in (12.5 cm)       |
| Package 1 Length             | 3.43 in (8.7 cm)        |
| Unit Type of Package 2       | S01                     |
| Number of Units in Package 2 | 8                       |
| Package 2 Weight             | 12.53 lb(US) (5.684 kg) |
| Package 2 Height             | 5.91 in (15 cm)         |
| Package 2 width              | 5.91 in (15 cm)         |
| Package 2 Length             | 15.75 in (40 cm)        |

## Offer Sustainability

|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product   |
| California proposition 65  | WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| 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) 1 fluid entry, tapped G1/4 (BSP female)
- (2) 1 electrical connections entry, tapped Pg 13.5
- $\varnothing$ : 2 elongated holes  $\varnothing$  5.2 x 6.7

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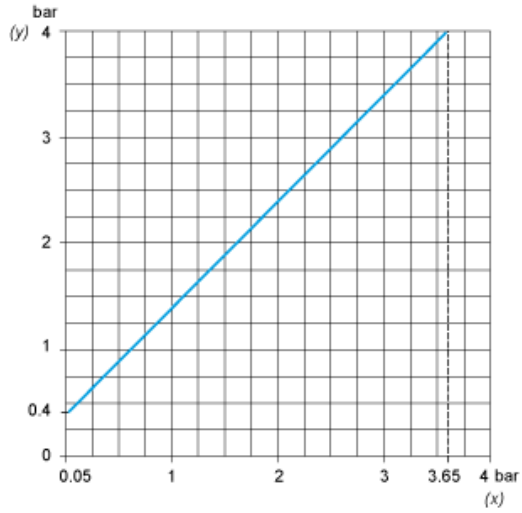
Wiring Diagram

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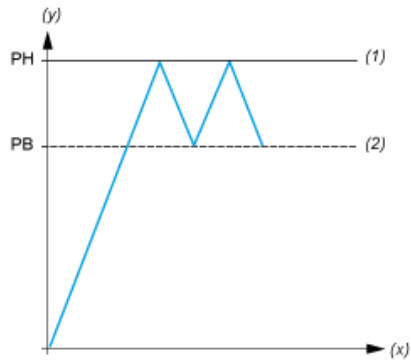
Terminal Model



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