

# XMLB004A2S12

Electromechanical pressure sensor, Pressure sensors XM, switch XMLB 4 bar, adjustable scale 2 thresholds, 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                                       | XMLB                                                                                                                                                |
| 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 ISO M20                                                                    |
| AWG gauge                                               | AWG 20...AWG 14                                                                                                                                     |
| Cable entry                                             | Cable gland 0.28...0.51 in (7...13 mm)                                                                                                              |
| Contacts type and composition                           | 1 C/O                                                                                                                                               |
| Product Specific Application                            | -                                                                                                                                                   |
| Pressure switch type of operation                       | Regulation between 2 thresholds                                                                                                                     |
| Electrical circuit type                                 | Control circuit                                                                                                                                     |
| Scale type                                              | Adjustable differential                                                                                                                             |
| Local display                                           | With                                                                                                                                                |
| Adjustable range of switching point on rising pressure  | 3.63...58.02 psi (0.25...4 bar)                                                                                                                     |
| Adjustable range of switching point on falling pressure | 0.73...54.39 psi (0.05...3.75 bar)                                                                                                                  |
| Possible differential maximum at high setting           | 34.81 psi (2.4 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                         | Nitrile<br>Zinc alloy                                                                                                                               |
| Enclosure Material                                      | Zinc alloy                                                                                                                                          |
| Line Rated Current                                      | 3 A, B300, AC-15 (Ue = 120 V)EN/IEC 60947-5-1<br>1.5 A, B300, AC-15 (Ue = 240 V)EN/IEC 60947-5-1<br>0.1 A, R300, DC-13 (Ue = 250 V)EN/IEC 60947-5-1 |

## Complementary

|                                               |                                             |
|-----------------------------------------------|---------------------------------------------|
| Possible differential minimum at low setting  | 2.90 psi (0.2 bar) +/- 0.01 bar)            |
| Possible differential minimum at high setting | 3.63 psi (0.25 bar) - 0.03 bar, + 0.05 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 |
| [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                                 | 6.22 in (158 mm)                                              |
| Depth                                  | 3.05 in (77.5 mm)                                             |
| Width                                  | 1.38 in (35 mm)                                               |
| Product Weight                         | 2.24 lb(US) (1.015 kg)                                        |

## Environment

|                                       |                                                                     |
|---------------------------------------|---------------------------------------------------------------------|
| Standards                             | CE<br>CSA C22.2 No 14<br>EN/IEC 60947-5-1<br>UL 508                 |
| Product Certifications                | LROS (Lloyds register of shipping)<br>CSA<br>CCC<br>EAC<br>BV<br>UL |
| 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                  | 3389110754919                        |
| Nbr. of units in pkg. | 1                                    |
| Package weight(Lbs)   | 2.25 lb(US) (1.021 kg)               |
| Returnability         | No                                   |
| Country of origin     | FR                                   |

## Packing Units

|                        |                   |
|------------------------|-------------------|
| Unit Type of Package 1 | PCE               |
| Package 1 Height       | 2.36 in (6 cm)    |
| Package 1 width        | 5.71 in (14.5 cm) |
| Package 1 Length       | 3.15 in (8 cm)    |

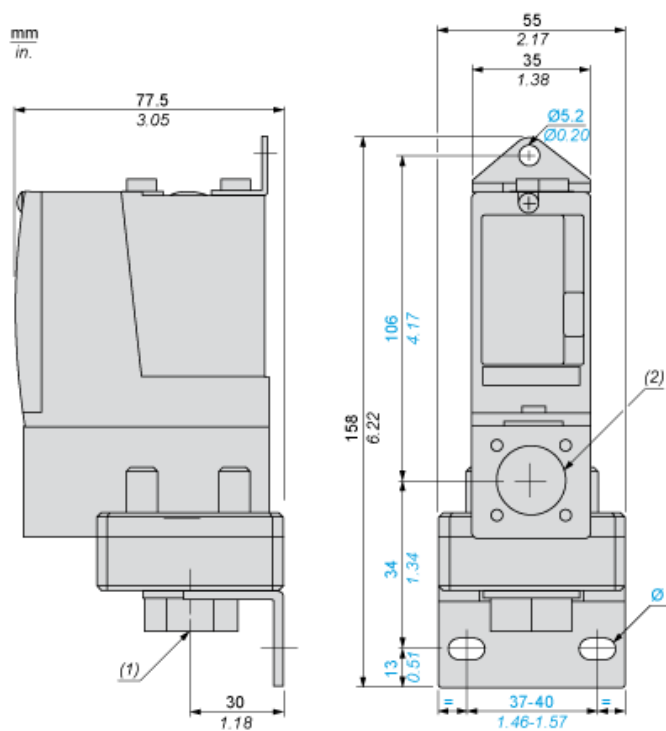
## Offer Sustainability

|                            |                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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



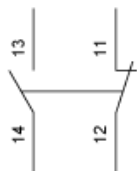
- (1) 1 fluid entry, tapped G1/4 (BSP female)  
(2) 1 electrical connections entry, tapped M20 x 1.5  
Ø : 2 elongated holes Ø 10.2 x 5.2

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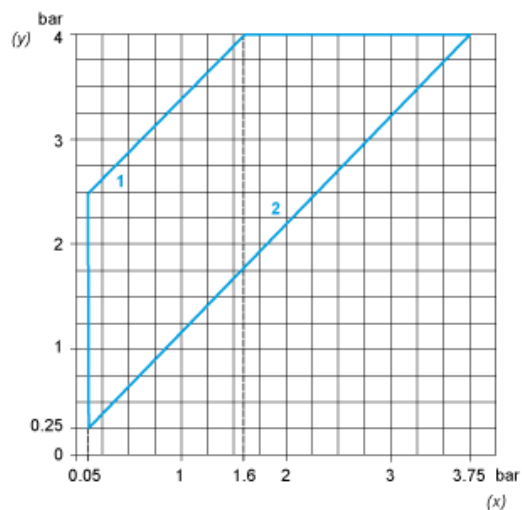
## Wiring Diagram

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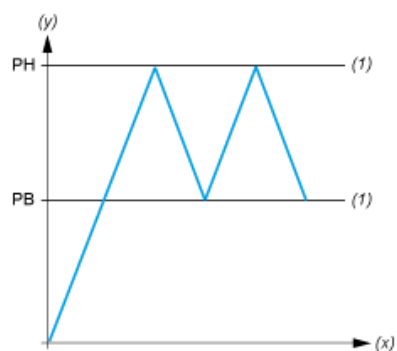
### Terminal Model



## Operating Curves



- (y) Rising pressure  
(x) Falling pressure  
1 : Maximum differential  
2 : Minimum differential



- (y) Pressure  
(x) Time  
(1) Adjustable value  
PH : High point  
PB : Below point

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