

# XMLB004B2S11

pressure 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 sensor size                                    | 58.02 psi (4 bar)  |
| Controlled fluid  | Air 32...320 °F (0...160 °C))<br>Fresh water 32...320 °F (0...160 °C))<br>Hydraulic oil (0...160 °C)   |
| Fluid connection type                                   | G 1/4 (female) conforming to ISO 228   |
| 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   | 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                       | 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                         | FPM, FKM<br>Steel  |
| Enclosure material                                      | Zinc alloy   |
| Line 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

|   |                                   |
|---|-----------------------------------|
| Possible differential minimum at low setting  | 0.2 bar (+/- 0.01 bar)            |
| Possible differential minimum at high setting | 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 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 EN/IEC 60947-1   |
| Auxiliary contacts operation           | Snap action   |
| Contacts material                      | Silver contacts   |
| Maximum 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                                 | 6.22 in (158 mm)  |
| Depth                                  | 3.05 in (77.5 mm)   |
| Width                                  | 1.38 in (35 mm)   |
| Net 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                | CSA<br>CCC<br>LROS (Lloyds register of shipping)<br>BV<br>EAC<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 conforming to IEC 60068-2-6 (f = 30...500 Hz)   |
| Shock resistance                      | 50 gn conforming to IEC 60068-2-27   |
| Electrical shock protection class     | 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               | IP66 EN/IEC 60529  |

## Ordering and shipping details

|                       |                       |
|-----------------------|-----------------------|
| GTIN                  | 03389110713541        |
| Nbr. of units in pkg. | 1                     |
| Package weight(Lbs)   | 2.31 lb(US) (1.05 kg) |

## Packing Units

|                              |                         |
|------------------------------|-------------------------|
| Unit Type of Package 1       | PCE                     |
| Package 1 Height             | 2.44 in (6.2 cm)        |
| Package 1 width              | 3.23 in (8.2 cm)        |
| Package 1 Length             | 5.71 in (14.5 cm)       |
| Unit Type of Package 2       | S01                     |
| Number of Units in Package 2 | 6                       |
| Package 2 Weight             | 16.26 lb(US) (7.377 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)        |

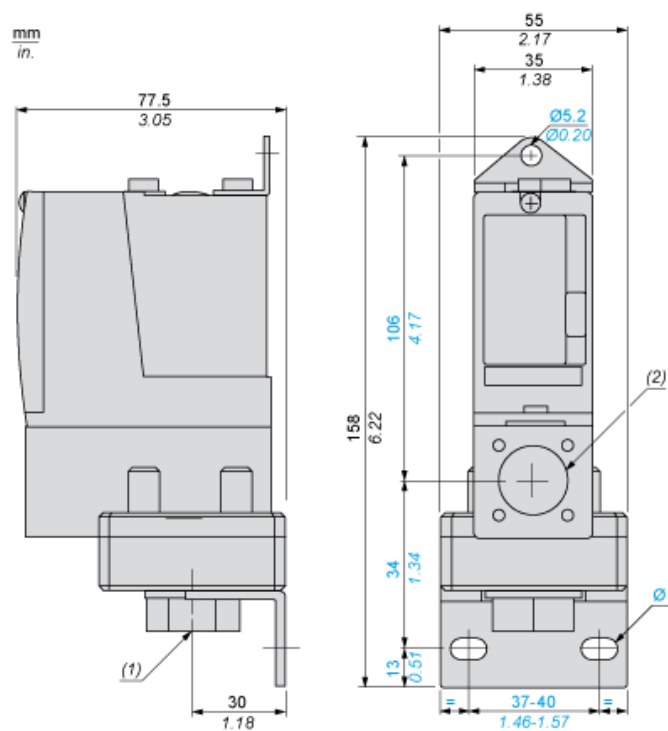
## Offer Sustainability

|                            |   |
|----------------------------|---|
| 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  
Ø : 2 elongated holes Ø 10.2 x 5.2

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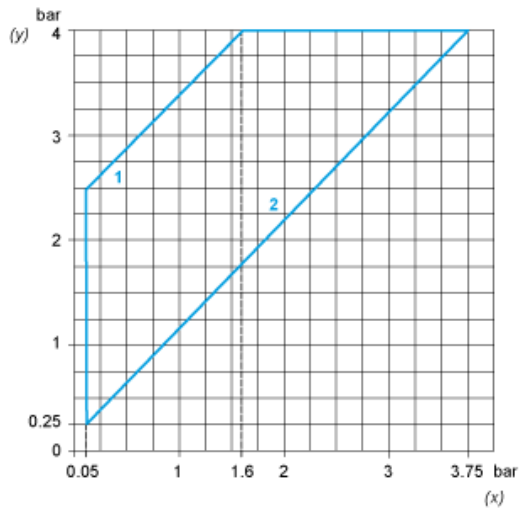
## Wiring Diagram

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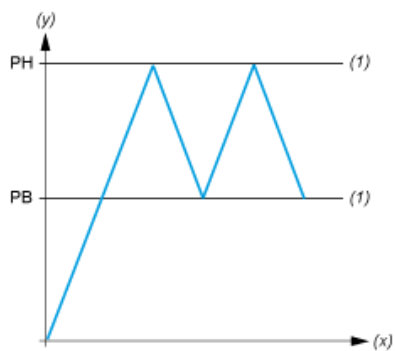
### Terminal Model



## 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