

# XMLB020A2S12

pressure switch XMLB 20 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                                    | 290.08 psi (20 bar)                                                                                                                                                                              |
| Controlled fluid                                        | Air (0...70 °C)<br>Fresh water 32...158 °F (0...70 °C)<br>Hydraulic oil (0...70 °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 0.28...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  | 18.85...290.08 psi (1.3...20 bar)                                                                                                                                                                |
| Adjustable range of switching point on falling pressure | 4.35...266.87 psi (0.3...18.4 bar)                                                                                                                                                               |
| Possible differential maximum at high setting           | 159.54 psi (11 bar)                                                                                                                                                                              |
| Maximum permissible accidental pressure                 | 652.67 psi (45 bar)                                                                                                                                                                              |
| Destruction pressure                                    | 1305.34 psi (90 bar)                                                                                                                                                                             |
| Pressure actuator                                       | Diaphragm                                                                                                                                                                                        |
| Materials in contact with fluid                         | Brass<br>Nitrile<br>Zinc alloy                                                                                                                                                                   |
| 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  | 14.50 psi (1 bar) +/- 0.25 bar   |
| Possible differential minimum at high setting | 23.21 psi (1.6 bar) +/- 0.25 bar |
| Maximum permissible pressure - per cycle      | 362.59 psi (25 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                  | 5000000 cycles                                                                                          |
| Setting                                | External                                                                                                |
| Height                                 | 4.45 in (113 mm)                                                                                        |
| Depth                                  | 2.95 in (75 mm)                                                                                         |
| Width                                  | 1.38 in (35 mm)                                                                                         |
| Net weight                             | 1.55 lb(US) (0.705 kg)                                                                                  |

## Environment

|                                       |                                                                                                      |
|---------------------------------------|------------------------------------------------------------------------------------------------------|
| Standards                             | CE<br>UL 508<br>EN/IEC 60947-5-1<br>CSA C22.2 No 14                                                  |
| Product certifications                | BV<br>CSA<br>LROS (Lloyds register of shipping)<br>UL<br>EAC<br>CCC                                  |
| 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                  | 03389110755916   |
| Nbr. of units in pkg. | 1                |
| Package weight(Lbs)   | 26.24 oz (744 g) |

## Packing Units

|                              |                         |
|------------------------------|-------------------------|
| Unit Type of Package 1       | PCE                     |
| Package 1 Height             | 1.57 in (4 cm)          |
| Package 1 width              | 4.65 in (11.8 cm)       |
| Package 1 Length             | 3.15 in (8 cm)          |
| Unit Type of Package 2       | S02                     |
| Number of Units in Package 2 | 13                      |
| Package 2 Weight             | 21.89 lb(US) (9.928 kg) |
| Package 2 Height             | 5.91 in (15 cm)         |
| Package 2 width              | 11.81 in (30 cm)        |
| Package 2 Length             | 15.75 in (40 cm)        |

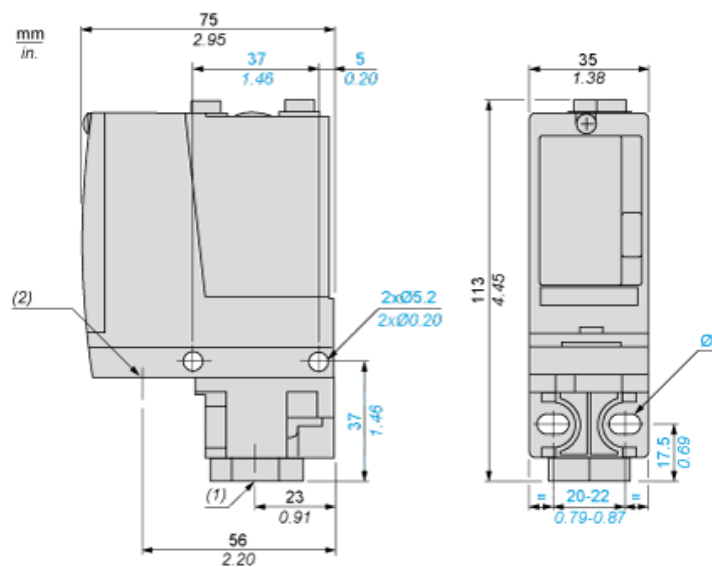
## Offer Sustainability

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



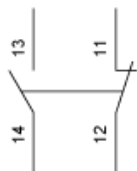
- (1) 1 fluid entry, tapped G1/4 (BSP female)  
 (2) 1 electrical connections entry, tapped M20 x 1.5  
 Ø : 2 elongated holes Ø 5.2 x 6.7

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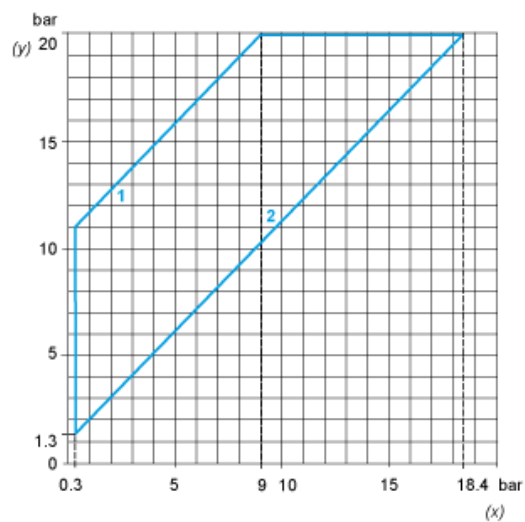
## Wiring Diagram

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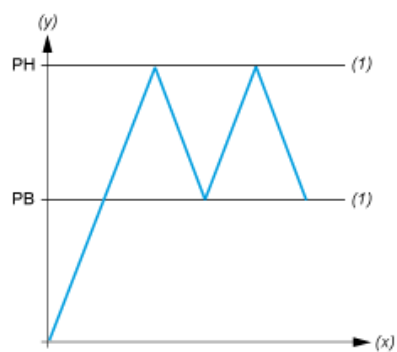
### Terminal Model



## Operating Curves



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



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