

# Product data sheet

Specifications



## vacu-pressure sensor XMLB 5 bar - adjustable scale 2 thresholds - 1 C/O

XMLBM05A2S11

### Main

|                                                         |                                                                         |
|---------------------------------------------------------|-------------------------------------------------------------------------|
| Range of product                                        | Telemecanique Pressure sensors XM                                       |
| Product or component type                               | Electromechanical pressure sensor                                       |
| Pressure sensor type                                    | Electromechanical vacuum-pressure sensor                                |
| Device short name                                       | XMLB                                                                    |
| Pressure sensor size                                    | 5 bar                                                                   |
| Controlled fluid                                        | Air (0...70 °C)<br>Fresh water (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 mm²<br>1 connector Pg 13      |
| AWG gauge                                               | AWG 20...AWG 14                                                         |
| Cable entry                                             | Cable gland 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  | -0.5...5 bar                                                            |
| Adjustable range of switching point on falling pressure | -1...4.5 bar                                                            |
| Possible differential maximum at high setting           | 6 bar                                                                   |
| Maximum permissible accidental pressure                 | 11.25 bar                                                               |
| Destruction pressure                                    | 23 bar                                                                  |
| Pressure actuator                                       | Diaphragm                                                               |
| Materials in contact with fluid                         | Zinc alloy<br>304L stainless steel<br>Nitrile                           |
| Enclosure material                                      | Zinc alloy                                                              |

|                    |                                                                                                                                                                                                  |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [In] 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  | 0.5 bar (+/- 0.05 bar)                                                                                  |
| Possible differential minimum at high setting | 0.5 bar (+/- 0.05 bar)                                                                                  |
| Maximum permissible pressure - per cycle      | 6.25 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 conforming to 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                         | 3000000 cycles                                                                                          |
| Setting                                       | External                                                                                                |
| Height                                        | 113 mm                                                                                                  |
| Depth                                         | 75 mm                                                                                                   |
| Width                                         | 35 mm                                                                                                   |
| Product weight                                | 0.685 kg                                                                                                |

## Environment

|                                       |                                                                                                      |
|---------------------------------------|------------------------------------------------------------------------------------------------------|
| Standards                             | UL 508<br>CE<br>EN/IEC 60947-5-1<br>CSA C22.2 No 14                                                  |
| Product certifications                | LROS (Lloyds register of shipping)<br>UL<br>CCC<br>CSA<br>EAC<br>BV                                  |
| 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 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 conforming to EN/IEC 60529                                                                      |

Packing Units

|                              |          |
|------------------------------|----------|
| Unit Type of Package 1       | PCE      |
| Number of Units in Package 1 | 1        |
| Package 1 Height             | 4.0 cm   |
| Package 1 Width              | 12.2 cm  |
| Package 1 Length             | 8.5 cm   |
| Package 1 Weight             | 730.0 g  |
| Unit Type of Package 2       | S02      |
| Number of Units in Package 2 | 13       |
| Package 2 Height             | 15.0 cm  |
| Package 2 Width              | 30.0 cm  |
| Package 2 Length             | 40.0 cm  |
| Package 2 Weight             | 9.797 kg |

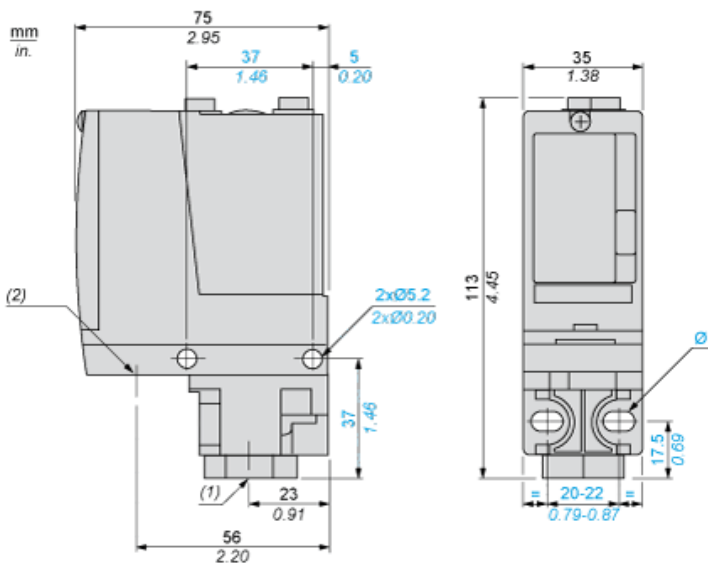
Offer Sustainability

|                            |                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                                                                                                                                                                                                                                                 |
| REACH Regulation           | <a href="#">REACH Declaration</a>                                                                                                                                                                                                                                                                                                                     |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope)<br><a href="#">EU RoHS Declaration</a>                                                                                                                                                                                                                                                     |
| Mercury free               | Yes                                                                                                                                                                                                                                                                                                                                                   |
| RoHS exemption information | <a href="#">Yes</a>                                                                                                                                                                                                                                                                                                                                   |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>                                                                                                                                                                                                                                                                                                         |
| 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="#">www.P65Warnings.ca.gov</a> |

Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

Dimensions

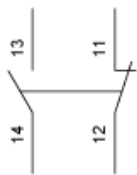


- (1) 1 fluid entry, tapped G1/4 (BSP female)
- (2) 1 electrical connections entry, tapped Pg 13.5
- Ø : 2 elongated holes Ø 5.2 x 6.7

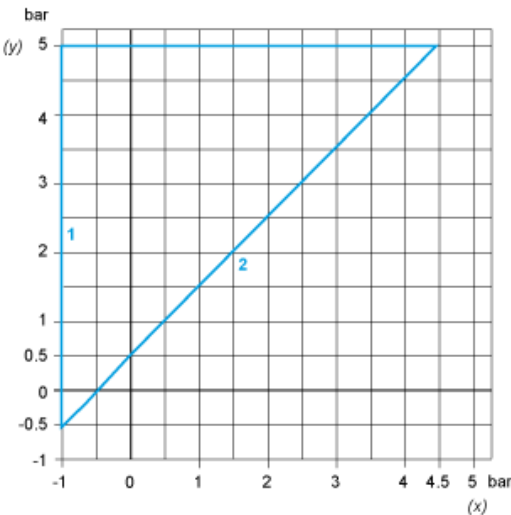
Wiring Diagram

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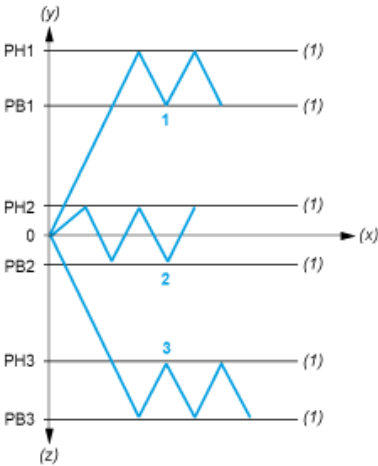
Terminal Model



Operating Curves



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



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

Recommended replacement(s)