

# XMLB002B2S12

pressure switch XMLB 2.5 bar - adjustable  
scale 2 thresholds - 1 C/O



## Main

|                                                         |                                                                                                                                                                                         |
|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range of product                                        | Telemecanique Pressure sensors XM                                                                                                                                                       |
| Product or component type                               | Electromechanical pressure sensor                                                                                                                                                       |
| Pressure sensor type                                    | Electromechanical pressure sensor                                                                                                                                                       |
| Device short name                                       | XMLB                                                                                                                                                                                    |
| Pressure rating                                         | 2.5 bar                                                                                                                                                                                 |
| Controlled fluid                                        | Air (0...160 °C)<br>Fresh water (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 mm²                                                                                                                                           |
| AWG gauge                                               | AWG 20...AWG 14                                                                                                                                                                         |
| Cable entry                                             | Cable gland 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  | 0.3...2.5 bar                                                                                                                                                                           |
| Adjustable range of switching point on falling pressure | 0.14...2.29 bar                                                                                                                                                                         |
| Possible differential maximum at high setting           | 1.75 bar                                                                                                                                                                                |
| Maximum permissible accidental pressure                 | 9 bar                                                                                                                                                                                   |
| Destruction pressure                                    | 18 bar                                                                                                                                                                                  |
| Pressure actuator                                       | Diaphragm                                                                                                                                                                               |
| Materials in contact with fluid                         | FPM, FKM<br>Steel                                                                                                                                                                       |
| Enclosure material                                      | Zinc alloy                                                                                                                                                                              |
| [In] rated current                                      | 3 A, B300, AC-15 (Ue = 120 V) conforming to IEC 60947-5-1<br>1.5 A, B300, AC-15 (Ue = 240 V) conforming to IEC 60947-5-1<br>0.1 A, R300, DC-13 (Ue = 250 V) conforming to IEC 60947-5-1 |

## Complementary

|                                               |                                   |
|-----------------------------------------------|-----------------------------------|
| Possible differential minimum at low setting  | 0.16 bar (- 0.03 bar, + 0.05 bar) |
| Possible differential minimum at high setting | 0.21 bar (- 0.03 bar, + 0.05 bar) |
| Maximum permissible pressure - per cycle      | 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 IEC 60947-1<br>300 V conforming to CSA C22.2 No 14 |
| [Uimp] rated impulse withstand voltage | 6 kV conforming to 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                                 | 113 mm                                                                                               |
| Depth                                  | 75 mm                                                                                                |
| Width                                  | 55 mm                                                                                                |
| Net weight                             | 1.015 kg                                                                                             |

## Environment

|                                       |                                                                                                      |
|---------------------------------------|------------------------------------------------------------------------------------------------------|
| Standards                             | IEC 60947-5-1<br>CSA C22.2 No 14<br>UL 508<br>CE                                                     |
| Product certifications                | CCC[RETURN]UL[RETURN]CSA[RETURN]LR0S (Lloyds register of shipping)<br>[RETURN]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 IEC 60529                                                                         |

## Packing Units

|                              |          |
|------------------------------|----------|
| Unit Type of Package 1       | PCE      |
| Number of Units in Package 1 | 1        |
| Package 1 Height             | 6 cm     |
| Package 1 Width              | 14.5 cm  |
| Package 1 Length             | 8 cm     |
| Package 1 Weight             | 1.175 kg |

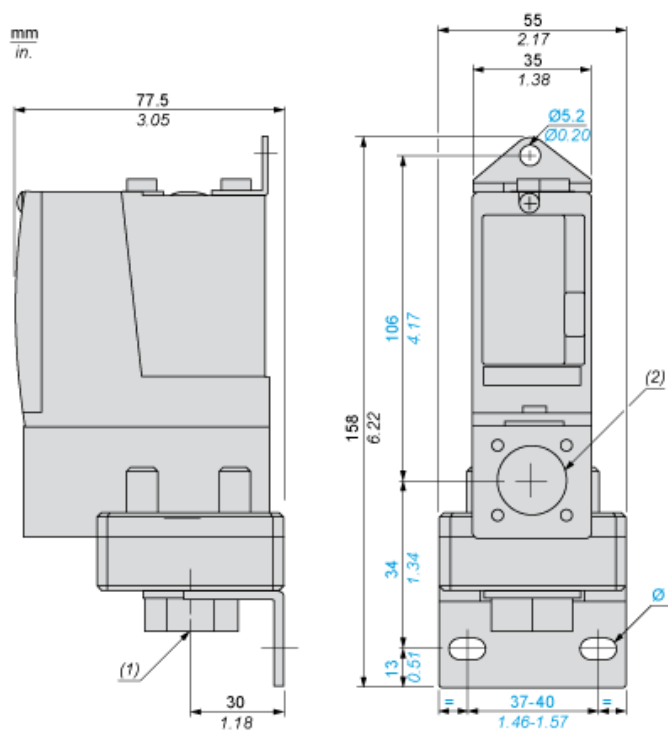
## Offer Sustainability

|                                            |                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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> |
| For all Reach Rohs enquiries contact us at | <a href="mailto:sustainability@tesensors.com">sustainability@tesensors.com</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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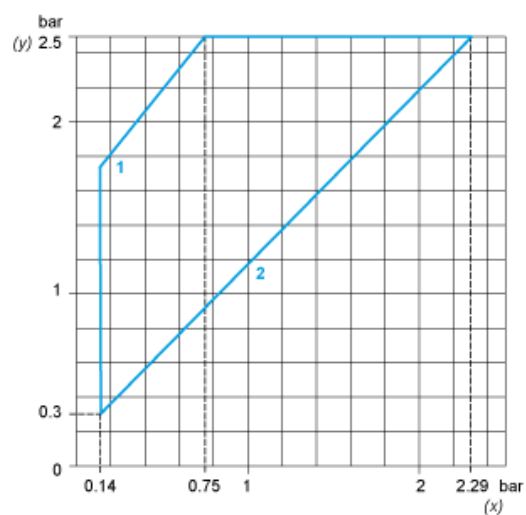
## Wiring Diagram

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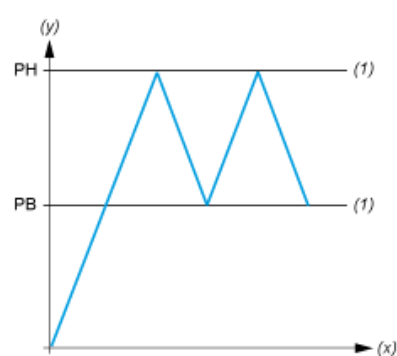
### Terminal Model



## 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