

# Product data sheet

## Characteristics

# XMLD010B1S12

pressure switch XMLD 10 bar - 2 stages fixed scale - 2 C/O



### Main

|   |   |
|---|---|
| Range of product                        | OsiSense XM   |
| Product or component type               | Electromechanical pressure sensor   |
| Pressure sensor type                    | Electromechanical pressure sensor   |
| Device short name                       | XMLD  |
| Pressure sensor size                    | 10 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 mm <sup>2</sup>  |
| AWG gauge                               | AWG 20...AWG 14   |
| Cable entry number                      | 1 tapped entry (M20 x 1.5) forcable gland , cable outer diameter: 7...13 mm   |
| Contacts type and composition           | 2 C/O snap action, silver contacts<br>2 C/O staggered, silver contacts  |
| Product specific application            | Dual stage  |
| Pressure switch type of operation       | Detection of 2 single thresholds  |
| Electrical circuit type                 | Control circuit   |
| Scale type                              | Fixed differential  |
| Local display                           | Without   |
| Maximum permissible accidental pressure | 22.5 bar  |
| Destruction pressure                    | 45 bar  |
| Pressure actuator                       | Diaphragm   |
| Materials in contact with fluid         | Brass<br>FPM, FKM   |
| 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

|  |   |
|--|---|
| Spread between 2 stages                  | 0.68...5.8 bar  |
| Natural differential at low setting      | 0.45 bar  |
| Natural differential at high setting     | 0.6 bar   |
| Maximum permissible pressure - per cycle | 12.5 bar  |
| Terminal block type                      | 8 terminals   |
| Operating rate                           | 0...120 cyc/mn at > 0...70 °C   |
| 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   |

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|                             |  |
|-----------------------------|--|
| 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                      | 113 mm   |
| Depth                       | 85 mm  |
| Width                       | 46 mm  |
| Product weight              | 0.705 kg   |

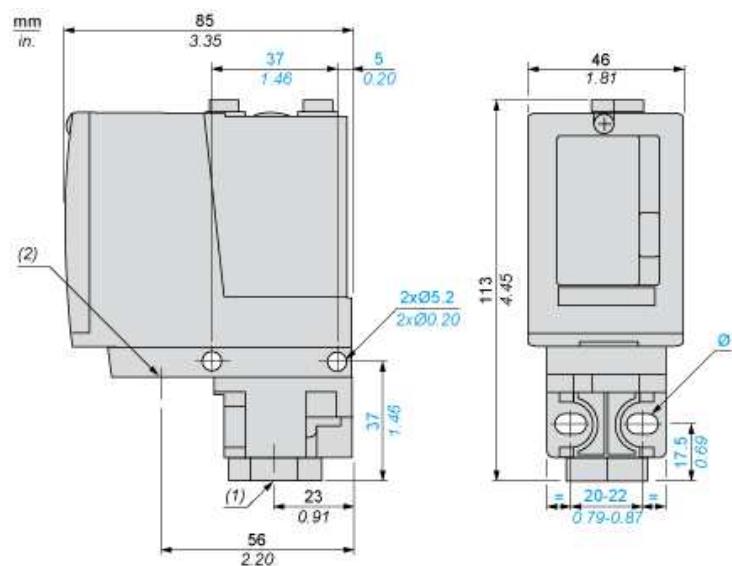
## Environment

|  |  |
|--|--|
| Standards                                  | CE<br>EN/IEC 60947-5-1<br>UL 508<br>CSA C22.2 No 14  |
| Product certifications                     | CSA<br>UL<br>EAC   |
| 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 (f = 30...500 Hz) conforming to IEC 60068-2-6   |
| Shock resistance                           | 50 gn conforming to IEC 60068-2-27   |
| Class of protection against electric shock | 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  |

## Offer Sustainability

|                                  |   |
|----------------------------------|---|
| Sustainable offer status         | Green Premium product   |
| RoHS (date code: YYWW)           | Compliant - since 0928 - <a href="#">Schneider Electric declaration of conformity</a> |
| REACH                            | Reference not containing SVHC above the threshold                                     |
| Product end of life instructions | Need no specific recycling operations   |

Dimensions



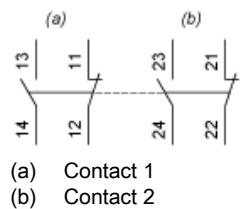
(1) 1 fluid entry, tapped G1/4 (BSP female)  
(2) 1 electrical connections entry, tapped M20 x 1.5  
Ø : 2 elongated holes Ø 5.2 x 6.7

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Wiring Diagram

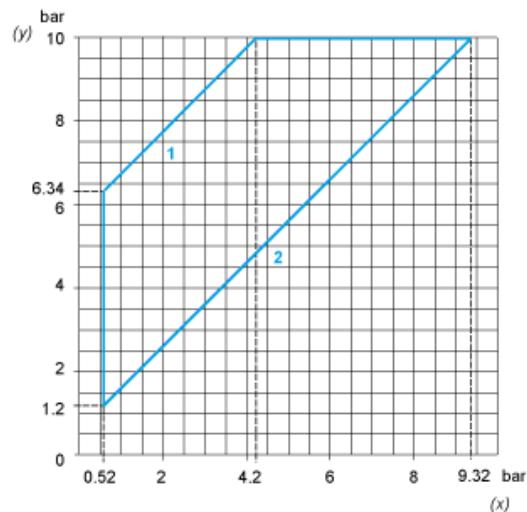
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Terminal Model



### Operating Curves

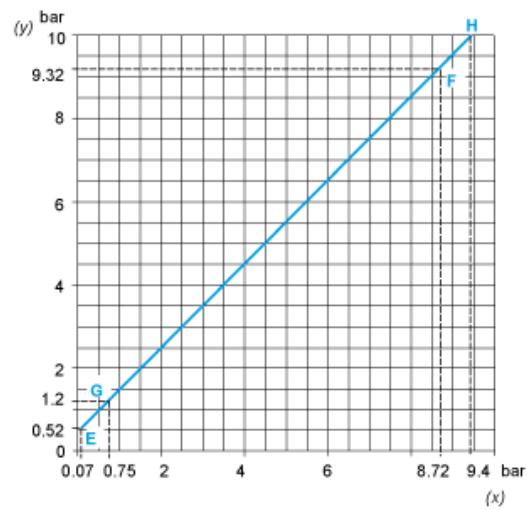
#### High Setting Tripping Points of Contacts 1 and 2



(y) PH2 setting (rising pressure)  
(x) PH1 setting (rising pressure)

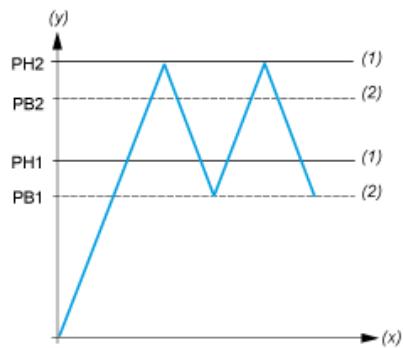
1 : Maximum differential  
2 : Minimum differential

#### Natural Differential of Contacts 1 and 2



(y) Rising pressure  
(x) Falling pressure

EF : Contact 1  
GH : Contact 2



(y) Pressure  
(x) Time  
(1) Adjustable value  
(2) Non adjustable value  
PH : High point  
PB : Below point