



## 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                             | Cable gland 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                           | 120 cyc/mn                                                                                              |
| Repeat accuracy                          | < 2 %                                                                                                   |
| [Ui] rated insulation voltage            | 300 V conforming to CSA C22.2 No 14<br>500 V conforming to EN/IEC 60947-1<br>300 V conforming to UL 508 |
| [Uimp] rated impulse withstand voltage   | 6 kV conforming to EN/IEC 60947-1                                                                       |
| 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                                                                   |
| 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                                                                      |

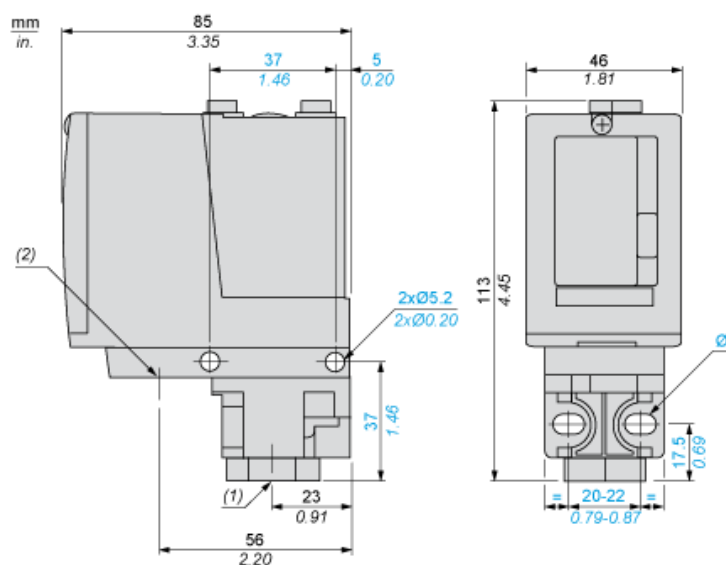
## Offer Sustainability

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

## Contractual warranty

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

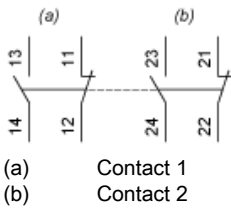
## Dimensions



- (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

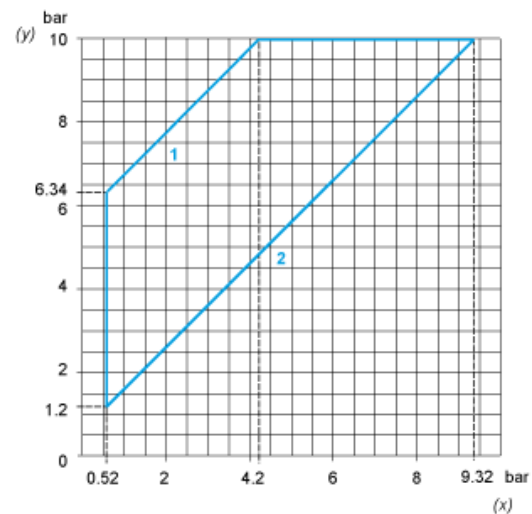
Wiring Diagram

Terminal Model



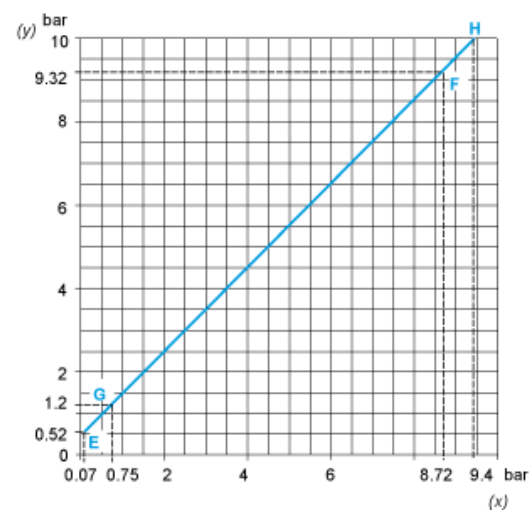
## Operating Curves

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

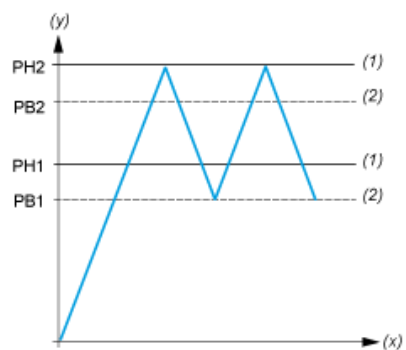


- (y) PH2 setting (rising pressure)  
(x) PH1 setting (rising pressure)  
1 : Maximum differential  
2 : Minimum differential

### 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