



Main

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| 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 | 36.26 psi (2.5 bar) |
| Controlled fluid | Air (0...160 °C) Fresh water (0...160 °C) 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 ² |
| AWG gauge | AWG 20...AWG 14 |
| Cable entry | Cable gland 0.35...0.51 in (9...13 mm) |
| Contacts type and composition | 2 C/O snap action, silver contacts 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 | 130.53 psi (9 bar) |
| Destruction pressure | 261.07 psi (18 bar) |
| Pressure actuator | Diaphragm |
| Materials in contact with fluid | FPM, FKM Steel |
| Enclosure material | Zinc alloy |
| [In] rated current | 3 A, B300, AC-15 (U _e = 120 V) conforming to EN/IEC 60947-5-1 1.5 A, B300, AC-15 (U _e = 240 V) conforming to EN/IEC 60947-5-1 0.1 A, R300, DC-13 (U _e = 250 V) conforming to EN/IEC 60947-5-1 |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Complementary

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|--|---|
| Spread between 2 stages | 2.03...21.76 psi (0.14...1.5 bar) |
| Natural differential at low setting | 2.03 psi (0.14 bar) |
| Natural differential at high setting | 2.76 psi (0.19 bar) |
| Maximum permissible pressure - per cycle | 72.52 psi (5 bar) |
| Terminal block type | 8 terminals |
| Maximum operating rate | 120 cyc/mn |
| Repeat accuracy | 2 % |
| [Ui] rated insulation voltage | 300 V conforming to UL 508 500 V conforming to EN/IEC 60947-1 300 V conforming to CSA C22.2 No 14 |
| [Uimp] rated impulse withstand voltage | EN/IEC 60947-1 6 kV |
| Maximum resistance across terminals | 25 mOhm conforming to IEC 255-7 category 3 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 | 4.45 in (113 mm) |
| Depth | 3.35 in (85 mm) |
| Width | 1.81 in (46 mm) |
| Net weight | 2.24 lb(US) (1.015 kg) |

Environment

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|---------------------------------------|--|
| Standards | CSA C22.2 No 14 UL 508 CE EN/IEC 60947-5-1 |
| Product certifications | UL EAC CSA |
| 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 Class I conforming to IEC 536 Class I conforming to NF C 20-030 |
| IP degree of protection | IP66 conforming to EN/IEC 60529 |

Packing Units

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|------------------|------------------------|
| Package 1 Weight | 0.00 lb(US) (0.001 kg) |
| Package 1 Height | 0.600 dm |
| Package 1 width | 1.050 dm |
| Package 1 Length | 1.400 dm |

Offer Sustainability

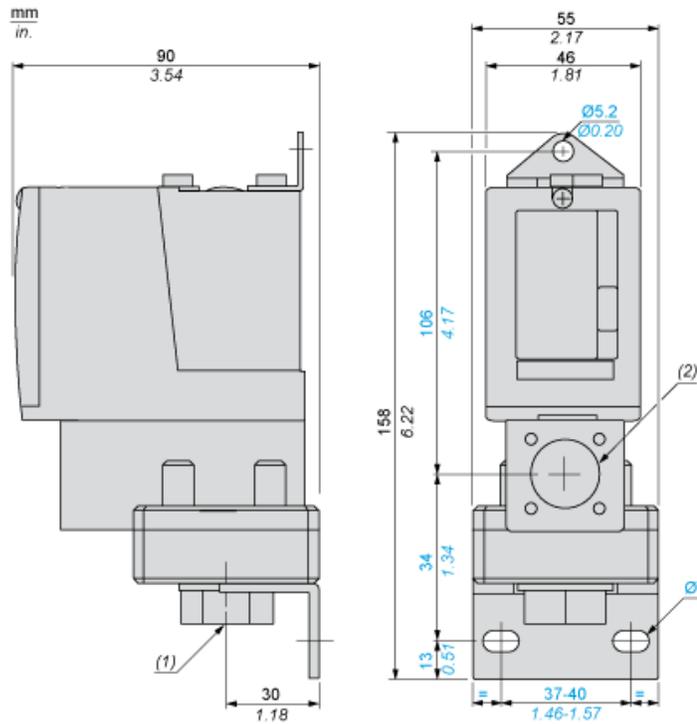
| | |
|--------------------------|---|
| Sustainable offer status | Green Premium product |
| REACH Regulation | REACH Declaration |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration |
| Mercury free | Yes |

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|----------------------------|---|
| RoHS exemption information | Yes |
| Environmental Disclosure | Product Environmental Profile |

Contractual warranty

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| Warranty | 18 months |
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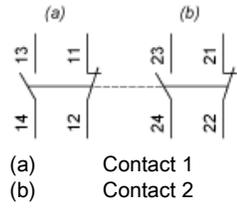
Dimensions



- (1) 1 fluid entry, tapped G1/4 (BSP female)
- (2) 1 electrical connections entry, tapped Pg 13.5
- Ø : 2 elongated holes Ø 10.2 x 5.2

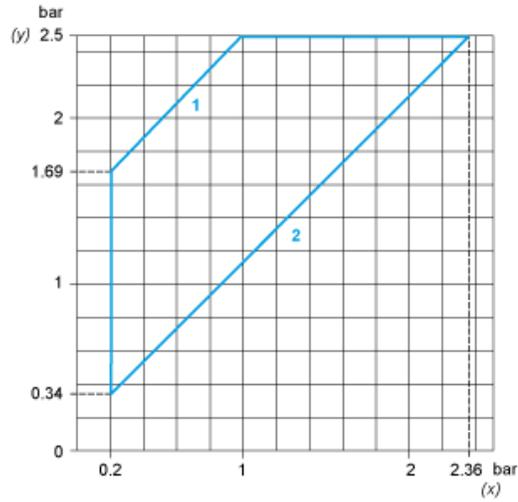
Wiring Diagram

Terminal Model



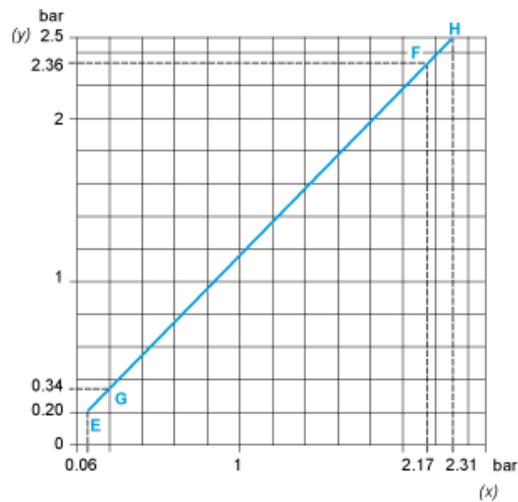
Operating Curves

High Setting Tripping Points of Contacts 1 and 2

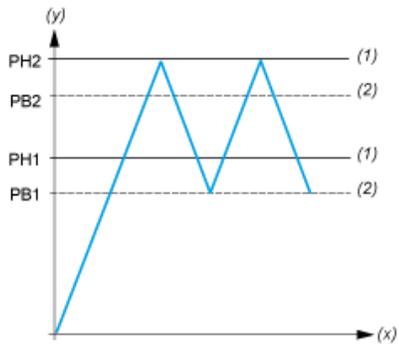


- (y) PH2 setting (rising pressure)
- (x) PH1 setting (rising pressure)
- 1 : Maximum differential
- 2 : Minimum differential

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