



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 | XMLC |
| Pressure sensor size | 1 bar |
| Controlled fluid | Air (0...160 °C) Hydraulic oil (0...160 °C) |
| Fluid connection type | 1/4" - 18 NPTF (female) |
| 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 7...13 mm |
| Contacts type and composition | 2 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 | 0.05...1 bar |
| Adjustable range of switching point on falling pressure | 0.02...0.96 bar |
| Possible differential maximum at high setting | 0.8 bar |
| Maximum permissible accidental pressure | 2.25 bar |
| Destruction pressure | 4.5 bar |
| Pressure actuator | Diaphragm |
| Materials in contact with fluid | Steel FPM, FKM 304L stainless steel |

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

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|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Enclosure material | Zinc alloy |
| [In] rated current | 3 A, B300, AC-15 (Ue = 120 V) conforming to EN/IEC 60947-5-1 1.5 A, B300, AC-15 (Ue = 240 V) conforming to EN/IEC 60947-5-1 0.1 A, R300, DC-13 (Ue = 250 V) conforming to EN/IEC 60947-5-1 |

Complementary

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| Possible differential minimum at low setting | 0.03 bar (+/- 0.01 bar) |
| Possible differential minimum at high setting | 0.04 bar (+/- 0.03 bar) |
| Maximum permissible pressure - per cycle | 1.25 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 |
| Auxiliary contacts operation | Simultaneous, snap action |
| Contacts material | Silver contacts |
| 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 | 4000000 cycles |
| Setting | External |
| Height | 162 mm |
| Depth | 110 mm |
| Width | 110 mm |
| Product weight | 2.555 kg |

Environment

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|---------------------------------------|------------------------------------------------------------------------------------------------------|
| Standards | CE EN/IEC 60947-5-1 CSA C22.2 No 14 UL 508 |
| Product certifications | EAC CSA UL |
| 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 | 2 gn conforming to IEC 60068-2-6 (f = 30...500 Hz) |
| Shock resistance | 30 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 |

Offer Sustainability

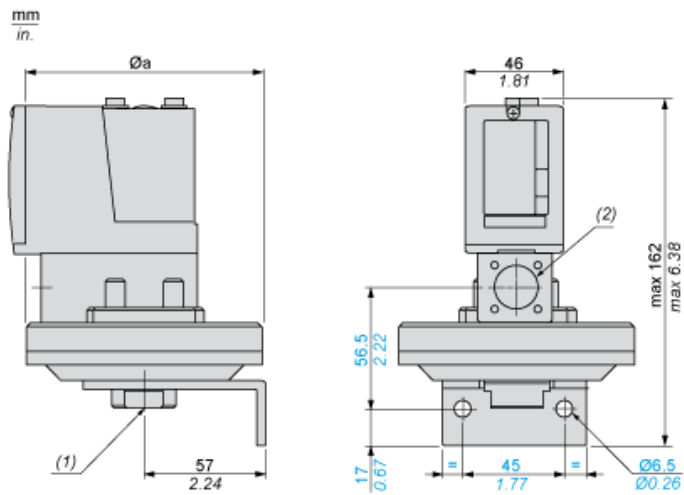
| | |
|----------------------------|---------------------------------------------------------------------------------------------------|
| Sustainable offer status | Green Premium product |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| Environmental Disclosure | Product Environmental Profile |

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| Circularity Profile | No need of specific recycling operations |
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Contractual warranty

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| Warranty | 18 months |
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Dimensions



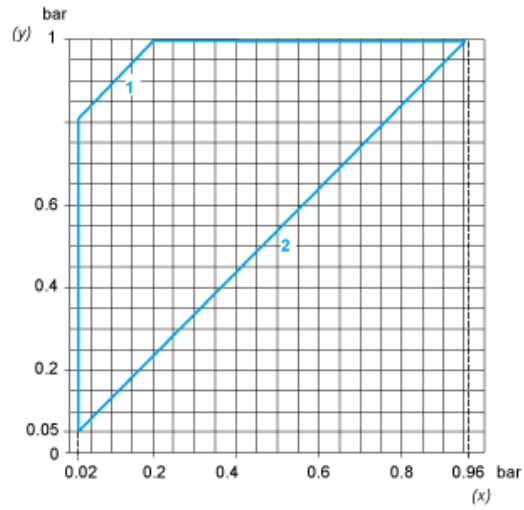
- $\varnothing a =$ 110 mm / 4.33 in.
(1) 1 fluid entry, tapped 1/4" NPTF
(2) 1 electrical connections entry, tapped 1/2" NPT

Wiring Diagram

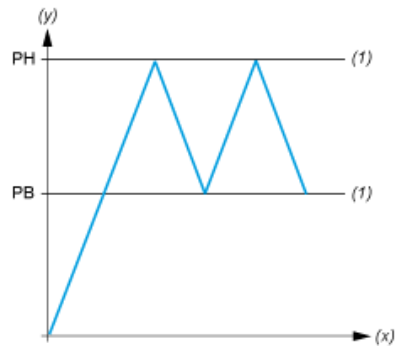
Terminal Model



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