



Main

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| Range of product | OsiSense XM |
| Product or component type | Electronic pressure sensors |
| Pressure switch type of operation | Regulation between 2 thresholds |
| Pressure sensor name | XMLF |
| Wiring technique | 4-wire |
| Pressure sensor size | 40 bar |
| Fluid connection type | 1/4" - 18 NPT (female) |
| Controlled fluid | Fresh water (0...80 °C) Hydraulic oil (-15...80 °C) Corrosive fluid (-15...80 °C) Air (-15...80 °C) |
| Type of output signal | Analogue + discrete |
| Analogue output function | 0...10 V |
| Discrete output type | Solid state PNP or NPN programmable, 1 NO or 1 NC programmable |
| Electrical connection | 4 pins male connector M12 |
| Product specific application | - |
| Adjustable range of switching point on rising pressure | 3.2...40 bar |
| Adjustable range of switching point on falling pressure | 2...38.8 bar |
| Destruction pressure | 240 bar |
| Type of installation | Control circuit |
| Scale type | Adjustable differential scale |
| Maximum switching current | 200 mA |
| [Us] rated supply voltage | 24 V DC, voltage limits: 17...33 V |
| Materials in contact with fluid | FPM (Viton) Stainless steel type AISI 303 |

Complementary

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| Setting | External setting |
| Possible differential minimum at low setting | 1.2 bar |
| Possible differential minimum at high setting | 1.2 bar |
| Possible differential maximum at high setting | 38 bar |
| Maximum permissible accidental pressure | 160 bar |
| Local display | With |
| Protection type | Connection faults Overload protection Reverse polarity Short-circuit protection |
| Current consumption | 80 mA |
| Operating rate in Hz | <= 50 Hz |
| Drift of the sensitivity | +/- 0.03 % of measuring range/°C |
| Drift of the zero point | +/- 0.1 % of measuring range/°C |
| Time delay range | 0...50 s in steps of 1 second |

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| Response time on output | 5...500 ms, in steps of 1 ms |
| Mechanical durability | >= 10000000 cycles |
| Display response time type | Fast Normal Slow |
| Height | 113 mm |
| Depth | 58 mm |
| Width | 46 mm |
| Product weight | 0.5 kg |
| Surge withstand | 0.5 kV DC |
| Measurement accuracy | <= 0.6 % of the measuring range |
| Repeat accuracy | <= 0.5 % |

Environment

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| Operating position | Any position |
| Standards | CE EN 50081 EN 50082 EN/IEC 60947-1 EN/IEC 60947-5-1 EN/IEC 61000-4-11 EN/IEC 61000-4-2 EN/IEC 61000-4-3 EN/IEC 61000-4-4 EN/IEC 61000-4-5 EN/IEC 61000-4-6 EN/IEC 61000-6-2 EN/IEC 61000-4-8 |
| Product certifications | CSA UL |
| Ambient air temperature for operation | -25...80 °C |
| Vibration resistance | 5 gn (f = 25...200 Hz) conforming to EN/IEC 60068-2-6 35 gn (f = 60...2000 Hz) conforming to EN/IEC 60068-2-6 |
| Protective treatment | TC |
| Shock resistance | 50 gn conforming to EN/IEC 60068-2-27 |
| Resistance to fast transients | 2 kV conforming to EN/IEC 61000-4-4 |
| IP degree of protection | IP67 conforming to EN/IEC 60529 |
| NEMA degree of protection | NEMA 12 NEMA 13 NEMA 4 NEMA 6 |
| Resistance to electrostatic discharge | 8 kV (in air) conforming to EN/IEC 61000-4-2 4 kV (on contact) conforming to EN/IEC 61000-4-2 |
| Resistance to electromagnetic fields | 10 V/m conforming to EN/IEC 61000-4-3 |
| Resistance to conducted disturbances, induced by radio frequency fields | 10 V conforming to EN/IEC 61000-4-6 |

Offer Sustainability

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| Sustainable offer status | Not Green Premium product |
| RoHS (date code: YYWW) | Compliant - since 0627 - Schneider Electric declaration of conformity |