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| Range of product | OsiSense XM |
| Product or component type | Electronic pressure sensors |
| Pressure sensor type | Pressure transmitter |
| Pressure switch type of operation | Pressure switch with 2 switching outputs |
| Device short name | XMLR |
| Pressure sensor size | 40 bar 580 psi |
| Maximum permissible accidental pressure | 150 bar 2175 psi 15 MPa |
| Destruction pressure | 150 bar 2175 psi 15 MPa |
| Controlled fluid | Fresh water (0...80 °C) Air (-20...80 °C) Hydraulic oil (-20...80 °C) Refrigeration fluid (-20...80 °C) |
| Fluid connection type | G 1/4 (female) conforming to DIN 3852-Y |
| [Us] rated supply voltage | 24 V DC SELV, voltage limits: 17...33 V |

Complementary

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| Current consumption | <= 50 mA |
| Electrical connection | 4 pins M12 male connector |
| Type of output signal | Discrete |
| Discrete output type | Solid state NPN, 2 NO/NC programmable |
| Maximum switching current | 250 mA |
| Contacts type and composition | 2 NO/NC programmable |
| Scale type | Fixed differential |
| Voltage drop | <= 2 V |
| Adjustable range of switching point on rising pressure | 3.2...40 bar 46.4...580 psi 0.32...4 MPa |
| Adjustable range of switching point on falling pressure | 2...38.8 bar 29...563 psi 0.2...3.88 MPa |

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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| Minimum differential travel | 1.2 bar 17.4 psi 120 kPa |
| Materials in contact with fluid | Ceramic Fluorocarbon FKM (Viton) 316L stainless steel |
| Front material | Polyester |
| Housing material | Polyacrylamide 316L stainless steel |
| Operating position | Any position, but disposals can falsified the measurement in case of upside down mounting |
| Protection type | Overload protection Overvoltage protection Reverse polarity Short-circuit protection |
| Response time on output | <= 5 ms for discrete output |
| Switching output time delay | 0...50 s in steps of 1 second |
| Display type | 4 digits 7 segments |
| Local signalling | 2 LEDs yellow for light ON when switch is actuated |
| Display response time type | Fast 50 ms Normal 200 ms Slow 600 ms |
| Delay first up | <= 300 ms |
| Overall accuracy | <= 1 % of the measuring range |
| Measurement accuracy on switching output | <= 0.6 % of the measuring range |
| Repeat accuracy | <= 0.2 % of the measuring range |
| Drift of the sensitivity | +/- 0.03 % of measuring range/°C |
| Drift of the zero point | +/- 0.1 % of measuring range/°C |
| Display accuracy | <= 1 % of the measuring range |
| Mechanical durability | >= 10000000 cycles |
| Depth | 42 mm |
| Height | 93 mm |
| Width | 41 mm |
| Product weight | 0.19 kg |
| [Uimp] rated impulse withstand voltage | 0.5 kV DC |
| Electromagnetic compatibility | Electrostatic discharge immunity test - test level 8 kV air, 4 kV contact conforming to EN/IEC 61000-4-2 Susceptibility to electromagnetic fields - test level 10 V/m (80...2000 MHz) conforming to EN/IEC 61000-4-3 Electrical fast transient/burst immunity test - test level 2 kV conforming to EN/IEC 61000-4-4 Surge immunity test - test level 1 kV conforming to EN/IEC 61000-4-5 Immunity to conducted RF disturbances - test level 10 V (0.15...80 MHz) conforming to EN/IEC 61000-4-6 |

Environment

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| Marking | CE |
| Product certifications | cULus EAC |
| Standards | UL 61010-1 EN/IEC 61326-2-3 |
| Ambient air temperature for operation | -20...80 °C |
| Ambient air temperature for storage | -40...80 °C |
| IP degree of protection | IP65 conforming to EN/IEC 60529 IP67 conforming to EN/IEC 60529 |
| Vibration resistance | 20 gn (f = 10...2000 Hz) conforming to EN/IEC 60068-2-6 |
| Shock resistance | 50 gn conforming to EN/IEC 60068-2-27 |

Offer Sustainability

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| RoHS (date code: YYWW) | Compliant - since 1351 - Schneider Electric declaration of conformity |
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