



Main

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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 transmitter with 2 switching outputs |
| Device short name | XMLR |
| Pressure rating | -99.97 KPa -1 Bar |
| Maximum permissible accidental pressure | 3 Bar 296.47 KPa 300 KPa |
| Destruction pressure | 296.47 KPa 300 KPa 3 Bar |
| 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 | Male connector M12, 5 pins |
| Analogue output function | 4...20 mA |
| Type of output signal | Analogue + discrete |
| Analogue output function | 4...20 mA |
| Discrete output type | Solid state PNP, 2 NO/NC programmable |
| Maximum switching current | 250 MA |
| Contacts type and composition | 2 NO/NC programmable |
| Scale type | Fixed differential |
| Maximum voltage drop | 2 V |
| Adjustable range of switching point on rising pressure | -99.97...-8.00 KPa -100...-8 KPa -1...-0.08 Bar |
| Adjustable range of switching point on falling pressure | -97...5 KPa -97.22...-5.03 KPa -0.97...-0.05 Bar |
| Minimum differential travel | 2.96 KPa 0.03 Bar 3 KPa |

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| Materials in contact with fluid | Fluorocarbon FKM (Viton) 316L stainless steel Ceramic |
| 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 Short-circuit protection Overvoltage protection Reverse polarity |
| Response time on output | <= 10 ms for analog output <= 5 ms for discrete output |
| Time delay range | 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 |
| Maximum delay first up | 300 Ms |
| Accuracy | <= 1 % of the measuring range |
| Linearity error | <= 0.5 % of the measuring range |
| Hysteresis | <= 0.2 % of the measuring range |
| Measurement accuracy | <= 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 |
| Net weight | 0.19 Kg |
| [Uimp] rated impulse withstand voltage | 0.5 KV DC |
| Electromagnetic compatibility | Susceptibility to electromagnetic fields: 10 V/m 80...2000 MHz conforming-to EN/IEC 61000-4-3 Immunity to conducted RF disturbances: 10 V 0.15...80 MHz conforming-to EN/IEC 61000-4-6 Surge immunity test: 1 kV conforming to EN/IEC 61000-4-5 Electrical fast transient/burst immunity test: 2 kV conforming to EN/IEC 61000-4-4 Electrostatic discharge immunity test: 8 kV air, 4 kV contact conforming-to EN/IEC 61000-4-2 |

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 |

Packing Units

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|------------------------------|---------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Weight | 181 G |
| Package 1 Height | 6.5 Cm |
| Package 1 width | 7.5 Cm |
| Package 1 Length | 12.7 Cm |

Offer Sustainability

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| REACH Regulation | REACH Declaration |
| REACH free of SVHC | Yes |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| California proposition 65 | WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov |

Product Life Status : **Commercialised**