



## Main

|                                 |   |
|---------------------------------|---|
| Range of product                | OsiSense XM   |
| Product or component type       | Electronic pressure sensors   |
| Pressure sensor name            | XMLF  |
| Controlled fluid                | Air (-15...80 °C)<br>Corrosive fluid (-15...80 °C)<br>Fresh water (-15...80 °C)<br>Hydraulic oil (-15...80 °C)<br>Sea water (-15...80 °C) |
| Electrical connection           | 4 pins male connector M12   |
| Fluid connection type           | G 1/4 (female) conforming to ISO 228  |
| Analogue output function        | 4...20 mA   |
| Pressure sensor size            | 10 bar  |
| Product specific application    | -   |
| Type of output signal           | Analogue  |
| Destruction pressure            | 60 bar  |
| Type of installation            | Control circuit   |
| Maximum switching current       | 200 mA  |
| [Us] rated supply voltage       | 24 V DC, voltage limits: 17...33 V  |
| Materials in contact with fluid | FPM (Viton)<br>Stainless steel type AISI 303  |

## Complementary

|   |  |
|---|--|
| Setting                                 | External setting   |
| Maximum permissible accidental pressure | 40 bar   |
| Local display                           | With   |
| Protection type                         | Connection faults<br>Overload protection<br>Reverse polarity<br>Short-circuit protection |
| Current consumption                     | 80 mA  |
| Operating rate in Hz                    | <= 50 Hz   |
| Drift of the sensitivity                | < +/- 0.03 % of msrg range /°C   |
| Drift of the zero point                 | < +/- 0.1 % of msrg range /°C  |
| Response time on output                 | 5...500 ms, in steps of 1 ms   |
| Mechanical durability                   | >= 10000000 cycles   |
| Display response time type              | Fast<br>Normal<br>Slow   |
| CAD overall depth                       | 58 mm  |
| CAD overall height                      | 113 mm   |
| CAD overall width                       | 46 mm  |
| Product weight                          | 0.48 kg  |
| Surge withstand                         | 0.5 kV DC  |
| Measurement accuracy                    | <= 0.6 % of the measuring range  |
| Repeat accuracy                         | <= 0.5 %   |

## Environment

|   |   |
|---|---|
| Operating position  | Any position  |
| Standards   | CE<br>EN 50081<br>EN 50082<br>EN 61000-4-11<br>EN 61000-4-2<br>EN 61000-4-3<br>EN 61000-4-4<br>EN 61000-4-5<br>EN 61000-4-6<br>EN 61000-4-8<br>EN 61000-6-2<br>EN/IEC 60947-1<br>EN/IEC 60947-5-1 |
| Product certifications  | CSA<br>UL   |
| Ambient air temperature for operation                                   | -25...80 °C   |
| Vibration resistance  | 35 gn (f = 60...2000 Hz) conforming to IEC 68-2-6<br>5 gn (f = 25...200 Hz) conforming to IEC 68-2-6  |
| Protective treatment  | TC  |
| Shock resistance  | 50 gn conforming to IEC 68-2-27   |
| Resistance to fast transients   | 2 kV conforming to EN 61000-4-4   |
| IP degree of protection   | IP67 conforming to EN/IEC 60529   |
| NEMA degree of protection   | NEMA 12<br>NEMA 13<br>NEMA 4<br>NEMA 6  |
| Resistance to electrostatic discharge                                   | 4 kV (on contact) conforming to EN 61000-4-2<br>8 kV (in air) conforming to EN 61000-4-2  |
| Resistance to electromagnetic fields                                    | 10 V/m conforming to EN 61000-4-3   |
| Resistance to conducted disturbances, induced by radio frequency fields | 10 V conforming to EN 61000-4-6   |