# Product data sheet
## Characteristics

# XMLR010G0T26
## Pressure sensors XMLR 10bar - 1/4" 18 NPT - 24VDC - 4..20 mA - M12




### Main

| | |
|---|---|
| Range of product | OsiSense XM |
| Product or component type | Electronic pressure sensors |
| Pressure switch type of operation | Pressure transmitter |
| Device short name | XMLR |
| Pressure sensor size | 10 bar<br>145 psi<br>1 MPa |
| Maximum permissible accidental pressure | 40 bar<br>580 psi<br>4 MPa |
| Destruction pressure | 40 bar<br>580 psi<br>4 MPa |
| Controlled fluid | Refrigeration fluid (-20...80 °C)<br>Hydraulic oil (-20...80 °C)<br>Air (-20...80 °C)<br>Fresh water (0...80 °C) |
| Fluid connection type | 1/4" - 18 NPT (female) |
| [Us] rated supply voltage | 24 V DC SELV, voltage limits: 17...33 V |

### Complementary

| | |
|---|---|
| Current consumption | <= 50 mA |
| Electrical connection | 4 pins M12 male connector |
| Type of output signal | Analog |
| Analogue output function | 4...20 mA |
| Materials in contact with fluid | Ceramic<br>Fluorocarbon FKM (Viton)<br>316L stainless steel |
| Front material | Polyester |
| Housing material | Polyacrylamide<br>316L stainless steel |
| Operating position | Any position, but disposals can falsified the measurement in case of upside down mounting |
| Protection type | Overload protection<br>Overvoltage protection<br>Reverse polarity<br>Short-circuit protection |
| Response time on output | <= 10 ms for analog output |
| Display type | 4 digits 7 segments |
| Display response time type | Slow 600 ms<br>Normal 200 ms<br>Fast 50 ms |
| Delay first up | <= 300 ms |
| Overall accuracy | <= 1 % of the measuring range |
| Linearity error on analogue output | <= 0.5 % of the measuring range |
| Hysteresis on analogue output | <= 0.2 % 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 |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein.
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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| | |
|---|---|
| Mechanical durability | >= 10000000 cycles |
| Depth | 42 mm |
| Height | 100 mm |
| Width | 41 mm |
| Product weight | 0.212 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<br>Electrical fast transient/burst immunity test - test level 2 kV conforming to EN/IEC 61000-4-4<br>Surge immunity test - test level 1 kV conforming to EN/IEC 61000-4-5<br>Immunity to conducted RF disturbances - test level 10 V (0.15...80 MHz) conforming to EN/IEC 61000-4-6<br>Susceptibility to electromagnetic fields - test level 10 V/m (80...2000 MHz) conforming to EN/IEC 61000-4-3 |

## Environment

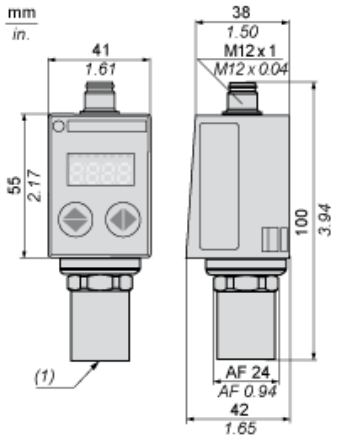
| | |
|---|---|
| Marking | CE |
| Product certifications | CULus<br>EAC |
| Standards | UL 61010-1<br>EN/IEC 61326-2-3 |
| Ambient air temperature for operation | -20...80 °C |
| Ambient air temperature for storage | -40...80 °C |
| IP degree of protection | IP67 conforming to EN/IEC 60529<br>IP65 conforming 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

| | |
|---|---|
| Sustainable offer status | Not Green Premium product |
| RoHS (date code: YYWW) | Compliant - since 1351 - Schneider Electric declaration of conformity |
| REACh | Reference not containing SVHC above the threshold |

## Dimensions Drawings

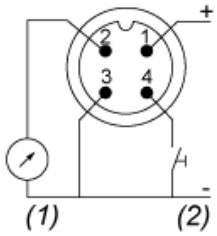
### Dimensions




(1) Fluid entry: 1/4”-18NPT female

## Connections and Schema

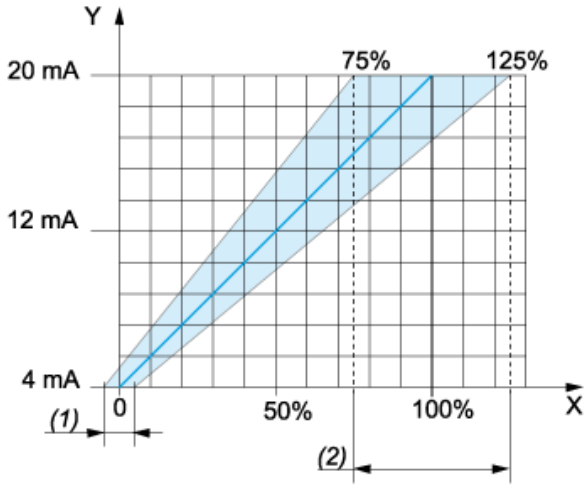
### Connector Wiring




(1) I Out or V Out
(2) Test Input

## Analogue Output Description

Analogue Output Signal




X : Pressure
Y : Analogue output signal
(1) An offset of +/-5% of nominal pressure can be compensated (with Cof Configuration menu. Cof: Offset Compensation)
(2) The analogue curve can be adjusted from -25% to +25% of nominal pressure (with AEP Configuration menu. AEP: analogue end point).