

# XMLR010G0T25

Pressure sensors XMLR 10bar - G 1/4 -  
24VDC - 4..20 mA - M12



## Main

|                                         |                                                                                                                  |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------|
| Range of product                        | OsiSense XM                                                                                                      |
| Product or component type               | Electronic pressure sensors                                                                                      |
| Pressure sensor type                    | Pressure transmitter                                                                                             |
| 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                        | Fresh water (0...80 °C)<br>Air (-20...80 °C)<br>Hydraulic oil (-20...80 °C)<br>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

|                                          |                                                                                               |
|------------------------------------------|-----------------------------------------------------------------------------------------------|
| Current consumption                      | <= 50 mA                                                                                      |
| Electrical connection                    | 4 pins M12 male connector                                                                     |
| Analogue output function                 | 4...20 mA                                                                                     |
| Type of output signal                    | Analogue                                                                                      |
| 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               | Fast 50 ms<br>Normal 200 ms<br>Slow 600 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 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          | Susceptibility to electromagnetic fields - test level 10 V/m (80...2000 MHz) conforming to EN/IEC 61000-4-3<br>Immunity to conducted RF disturbances - test level 10 V (0.15...80 MHz) conforming to EN/IEC 61000-4-6<br>Surge immunity test - test level 1 kV conforming to EN/IEC 61000-4-5<br>Electrical fast transient/burst immunity test - test level 2 kV conforming to EN/IEC 61000-4-4<br>Electrostatic discharge immunity test - test level 8 kV air, 4 kV contact conforming to EN/IEC 61000-4-2 |

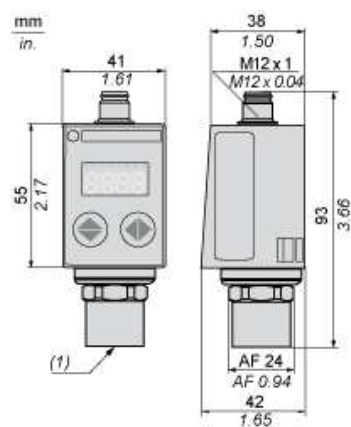
## Environment

|                                       |                                                                    |
|---------------------------------------|--------------------------------------------------------------------|
| 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               | IP65 conforming to EN/IEC 60529<br>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

|                          |                                                                                       |
|--------------------------|---------------------------------------------------------------------------------------|
| Sustainable offer status | Not Green Premium product                                                             |
| RoHS (date code: YYWW)   | Compliant - since 1351 - <a href="#">Schneider Electric declaration of conformity</a> |
| REACH                    | Reference not containing SVHC above the threshold                                     |

## Dimensions

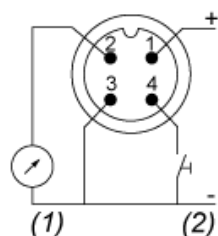


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## Connections and Schema

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### Connector Wiring



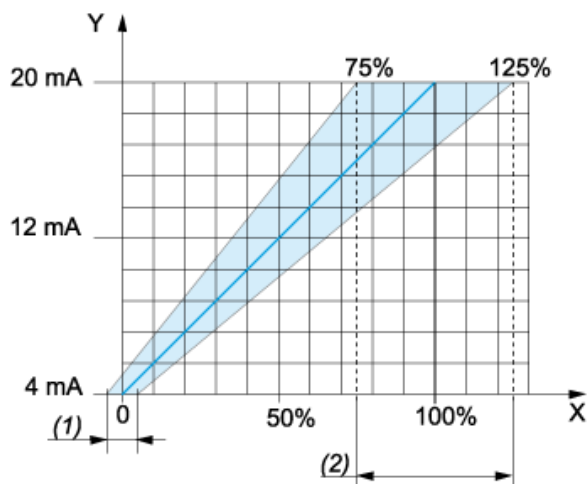
- (1) I Out or V Out
- (2) Test Input

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## Analogue Output Description

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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).