

# XMLR600M0T25

Electronic pressure sensors, Pressure sensors XM, XMLR 600 bar, G 1/4, 24 VDC, 4...20 mA, M12



## Main

|                                         |                                                                                                                                                                      |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range of Product                        | Telemecanique Pressure sensors 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 Rating                         | 8700 Psi (59984.39 kPa)<br>8702.26 psi (600 bar)                                                                                                                     |
| Maximum permissible accidental pressure | 21750 Psi (149960.96 kPa)<br>21755.66 Psi (1500 bar)<br>150 MPa                                                                                                      |
| Destruction pressure                    | 250 MPa<br>36250 Psi (249934.94 kPa)<br>36259.44 psi (2500 bar)                                                                                                      |
| Controlled fluid                        | Fresh water 32...176 °F (0...80 °C))<br>Air -4...176 °F (-20...80 °C))<br>Hydraulic oil -4...176 °F (-20...80 °C))<br>Refrigeration fluid -4...176 °F (-20...80 °C)) |
| Fluid connection type                   | G 1/4 (female) DIN 3852-Y                                                                                                                                            |
| [Us] rated supply voltage               | 24 V DC SELV 17...33 V)                                                                                                                                              |

## Complementary

|                                          |                                                                                               |
|------------------------------------------|-----------------------------------------------------------------------------------------------|
| Current Consumption                      | <= 50 mA                                                                                      |
| Electrical connection                    | Male connector M12, 4 pins                                                                    |
| Analogue output function                 | 4...20 mA                                                                                     |
| Type of output signal                    | Analogue                                                                                      |
| Analogue output function                 | 4...20 mA                                                                                     |
| Scale type                               | Fixed differential                                                                            |
| Materials in contact with fluid          | 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                          | Reverse polarity<br>Overload protection<br>Overvoltage protection<br>Short-circuit protection |
| Response time on output                  | <= 10 ms analog output                                                                        |
| Display Type                             | 4 digits 7 segments                                                                           |
| Display response time type               | Fast 50 ms<br>Normal 200 ms<br>Slow 600 ms                                                    |
| Maximum 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                                  | 1.65 in (42 mm)                                                                                                                                                                                                                                                                                                                                                  |
| Height                                 | 3.46 in (88 mm)                                                                                                                                                                                                                                                                                                                                                  |
| Width                                  | 1.61 in (41 mm)                                                                                                                                                                                                                                                                                                                                                  |
| Net Weight                             | 0.41 lb(US) (0.186 kg)                                                                                                                                                                                                                                                                                                                                           |
| [Uimp] rated impulse withstand voltage | 0.5 kV DC                                                                                                                                                                                                                                                                                                                                                        |
| Electromagnetic compatibility          | Susceptibility to electromagnetic fields 10 V/m 80...2000 MHz EN/IEC 61000-4-3<br>Immunity to conducted RF disturbances 10 V 0.15...80 MHz EN/IEC 61000-4-6<br>Surge immunity test 1 kV EN/IEC 61000-4-5<br>Electrical fast transient/burst immunity test 2 kV EN/IEC 61000-4-4<br>Electrostatic discharge immunity test 8 kV air, 4 kV contact EN/IEC 61000-4-2 |

## Environment

|                                       |                                                                    |
|---------------------------------------|--------------------------------------------------------------------|
| Marking                               | CE                                                                 |
| Product Certifications                | EAC<br>cULus                                                       |
| Standards                             | UL 61010-1<br>EN/IEC 61326-2-3                                     |
| Ambient Air Temperature for Operation | -4...176 °F (-20...80 °C)                                          |
| Ambient Air Temperature for Storage   | -40...176 °F (-40...80 °C)                                         |
| IP degree of protection               | IP65 conforming to EN/IEC 60529<br>IP67 conforming to EN/IEC 60529 |
| Vibration resistance                  | 20 gn 10...2000 Hz)EN/IEC 60068-2-6                                |
| Shock resistance                      | 50 gn EN/IEC 60068-2-27                                            |

## Ordering and shipping details

|                   |                                       |
|-------------------|---------------------------------------|
| Category          | 21551-XMLE,XMLF,XMLG PRESSURE SENSORS |
| Discount Schedule | DS2                                   |
| GTIN              | 3389119612036                         |
| Returnability     | No                                    |
| Country of origin | CH                                    |

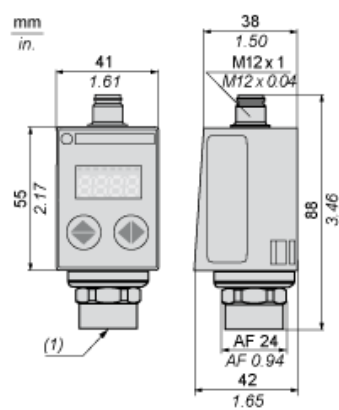
## Packing Units

|                              |                       |
|------------------------------|-----------------------|
| Unit Type of Package 1       | PCE                   |
| Number of Units in Package 1 | 1                     |
| Package 1 Height             | 2.56 in (6.5 cm)      |
| Package 1 Width              | 2.95 in (7.5 cm)      |
| Package 1 Length             | 5.12 in (13.0 cm)     |
| Package 1 Weight             | 6.49 oz (184.0 g)     |
| Unit Type of Package 2       | S02                   |
| Number of Units in Package 2 | 20                    |
| Package 2 Height             | 5.91 in (15.0 cm)     |
| Package 2 Width              | 11.81 in (30.0 cm)    |
| Package 2 Length             | 15.75 in (40.0 cm)    |
| Package 2 Weight             | 8.86 lb(US) (4.02 kg) |

## Offer Sustainability

|                            |                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| REACH Regulation           | <a href="#">REACH Declaration</a>                                                                                                                                                                                                                                                                                                                                                 |
| REACH free of SVHC         | Yes                                                                                                                                                                                                                                                                                                                                                                               |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>                                                                                                                                                                                                                                                                                    |
| Mercury free               | Yes                                                                                                                                                                                                                                                                                                                                                                               |
| RoHS exemption information | <a href="#">Yes</a>                                                                                                                                                                                                                                                                                                                                                               |

## Dimensions



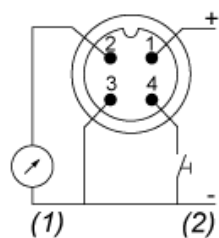
(1) Fluid entry: G 1/4 A female

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## Connections and Schema

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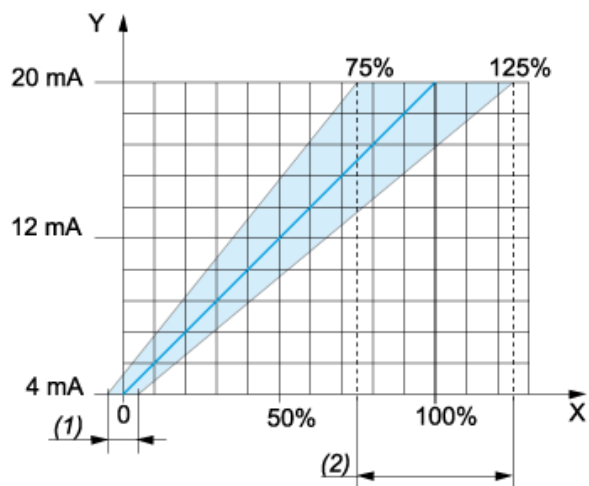
### Connector Wiring



- (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).

# Mouser Electronics

Authorized Distributor

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[XMLR600M0T25](#)