

# XMLP250MD21F

Electronic pressure sensors, Pressure sensors XM, transmitter 250mbar, 4...20 mA, G1/4 A male, FPM, M12



## Main

|                           |                                                                                                      |
|---------------------------|------------------------------------------------------------------------------------------------------|
| Range of product          | Telemecanique Pressure sensors XM                                                                    |
| Product or component type | Electronic pressure sensors                                                                          |
| Pressure sensor type      | Pressure transmitter                                                                                 |
| Pressure sensor name      | XMLP                                                                                                 |
| Electrical circuit type   | Control circuit                                                                                      |
| Pressure rating           | 250 mbar                                                                                             |
| Local display             | Without                                                                                              |
| Controlled fluid          | Fresh water (0...125 °C)<br>Air (-15...125 °C)<br>Gas (-15...125 °C)<br>Hydraulic oil (-15...125 °C) |
| Fluid connection type     | G 1/4A (male) conforming to DIN 3852-E                                                               |
| Electrical connection     | 1 male connector M12 4 pins                                                                          |
| [Us] rated supply voltage | 12...24 V DC SELV (voltage limits: 7...33 V)                                                         |
| Current consumption       | < 23 mA                                                                                              |
| Type of output signal     | Analogue                                                                                             |
| Analogue output function  | 4...20 mA, 2-wire                                                                                    |
| Quantity per set          | Set of 1                                                                                             |
| Type of packing           | Individual                                                                                           |

## Complementary

|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pressure setting range                  | 0...0.25 bar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Maximum permissible accidental pressure | 3 bar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Destruction pressure                    | 5 bar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Materials in contact with fluid         | Fluorocarbon FPM<br>Stainless steel AISI 316L<br>Ceramic                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Operating position                      | Any position                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Protection type                         | Reverse polarity<br>Load short-circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Electromagnetic compatibility           | Susceptibility to electromagnetic fields conforming to IEC 61000-4-3 10 V/m 80...1000 MHz<br>Radiated RF fields conforming to IEC 61000-4-6 10 V 0.15...80 MHz<br>Electrostatic discharge immunity test conforming to IEC 61000-4-2 8 kV air, 4 kV contact<br>1.2/50 µs shock waves immunity test conforming to IEC 61000-4-5 1 kV 42 Ohm<br>Immunity to magnetic fields conforming to IEC 61000-4-8 100 A/m 50 Hz<br>Electrical fast transient/burst immunity test conforming to IEC 61000-4-4 4 kV |
| [Uimp] rated impulse withstand voltage  | 0.5 kV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Response time on output                 | <= 2 ms 92 % of full scale                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Measurement accuracy                    | +/- 2 % of the measuring range                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Drift of the sensitivity                | +/- 0.02 % of measuring range/°K                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Drift of the zero point                 | +/- 0.05 % of measuring range/°K                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Long term stability                     | +/- 0.2 % of the measuring range                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Mechanical durability                   | 10000000 cycles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Net weight                              | 0.075 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Diameter                                | 26 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Length                                  | 32.3 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

## Environment

|                                       |                                                                                               |
|---------------------------------------|-----------------------------------------------------------------------------------------------|
| Standards                             | IEC 61326-2-3<br>NSF ANSI 61                                                                  |
| Product certifications                | cULus[RETURN]CE[RETURN]RCM                                                                    |
| Ambient air temperature for operation | -30...85 °C                                                                                   |
| Ambient air temperature for storage   | -50...100 °C                                                                                  |
| Vibration resistance                  | 20 gn (f = 10...2000 Hz) conforming to IEC 60068-2-6                                          |
| Shock resistance                      | 100 gn for 11 ms conforming to IEC 60068-2-27                                                 |
| IP degree of protection               | IP65 conforming to IEC 60529<br>IP67 conforming to IEC 60529<br>IP69K conforming to DIN 40050 |

## Packing Units

|                              |          |
|------------------------------|----------|
| Unit Type of Package 1       | PCE      |
| Number of Units in Package 1 | 1        |
| Package 1 Height             | 4.200 cm |
| Package 1 Width              | 4.700 cm |
| Package 1 Length             | 8.700 cm |
| Package 1 Weight             | 84.000 g |
| Unit Type of Package 2       | S01      |
| Number of Units in Package 2 | 24       |
| Package 2 Height             | 15 cm    |
| Package 2 Width              | 15 cm    |
| Package 2 Length             | 40 cm    |
| Package 2 Weight             | 2.199 kg |

## Offer Sustainability

|                                            |                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status                   | Green Premium product                                                                                                                                                                                                                                                                                                                                                             |
| Circularity Profile                        | No need of specific recycling operations                                                                                                                                                                                                                                                                                                                                          |
| 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> |
| For all Reach Rohs enquiries contact us at | <a href="mailto:sustainability@tesensors.com">sustainability@tesensors.com</a>                                                                                                                                                                                                                                                                                                    |

- (1) SW24 tightening torque  $\leq 25$  N.m / 221 lb-in

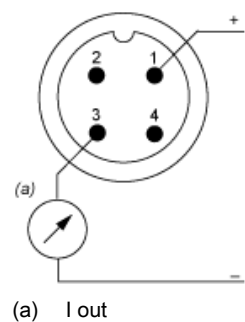
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## Connection and Schema

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### Wiring Diagram

2-Wire Technique (4-20 mA)



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Performance Curves

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Curves

