

# XMLP500MD21F

Electronic pressure sensors, Pressure sensors XM, transmitter 500mbar, 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           | 500 mbar                                                                                                                                          |
| Local display             | Without                                                                                                                                           |
| Controlled fluid          | Fresh water 32...257 °F (0...125 °C)<br>Air 5...257 °F (-15...125 °C)<br>Gas 5...257 °F (-15...125 °C)<br>Hydraulic oil 5...257 °F (-15...125 °C) |
| Fluid connection type     | G 1/4A (male) DIN 3852-E                                                                                                                          |
| Electrical connection     | 1 male connector M12 4 pins                                                                                                                       |
| [Us] rated supply voltage | 12...24 V DC SELV 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                  | 0.00...7.25 psi (0...0.5 bar)                                                                                                                                                                                                                                                                                                                                                                                                      |
| Maximum permissible accidental pressure | 43.51 psi (3 bar)                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Destruction pressure                    | 72.52 psi (5 bar)                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Materials in contact with fluid         | Ceramic<br>Stainless steel AISI 316L<br>Fluorocarbon FPM                                                                                                                                                                                                                                                                                                                                                                           |
| Operating position                      | Any position                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Protection Type                         | Load short-circuit<br>Reverse polarity                                                                                                                                                                                                                                                                                                                                                                                             |
| Electromagnetic compatibility           | Susceptibility to electromagnetic fields EN/IEC 61000-4-3 10 V/m 80...1000 MHz<br>Radiated RF fields EN/IEC 61000-4-6 10 V 0.15...80 MHz<br>Electrostatic discharge immunity test EN/IEC 61000-4-2 8 kV air, 4 kV contact<br>1.2/50 µs shock waves immunity test EN/IEC 61000-4-5 1 kV 42 Ohm<br>Immunity to magnetic fields EN/IEC 61000-4-8 100 A/m 50 Hz<br>Electrical fast transient/burst immunity test EN/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                    | +/- 1.5 % of the measuring range                                                                                                                                                                                                                                                                                                                                                                                                   |
| Drift of the sensitivity                | +/- 0.02 % of measuring range/°K                                                                                                                                                                                                                                                                                                                                                                                                   |
| Drift of the zero point                 | +/- 0.03 % of measuring range/°K                                                                                                                                                                                                                                                                                                                                                                                                   |
| Long term stability                     | +/- 0.1 % of the measuring range                                                                                                                                                                                                                                                                                                                                                                                                   |
| Mechanical durability                   | 10000000 cycles                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Net Weight                              | 0.17 lb(US) (0.075 kg)                                                                                                                                                                                                                                                                                                                                                                                                             |
| Diameter                                | 1.02 in (26 mm)                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Length                                  | 1.27 in (32.3 mm)                                                                                                                                                                                                                                                                                                                                                                                                                  |

## Environment

|                                       |                                                                                                     |
|---------------------------------------|-----------------------------------------------------------------------------------------------------|
| Standards                             | NSF ANSI 61<br>EN/IEC 61326-2-3                                                                     |
| Product Certifications                | EAC<br>CULus<br>RCM<br>CE                                                                           |
| Ambient Air Temperature for Operation | -22...185 °F (-30...85 °C)                                                                          |
| Ambient Air Temperature for Storage   | -58...212 °F (-50...100 °C)                                                                         |
| Vibration resistance                  | 20 gn 10...2000 Hz) EN/IEC 60068-2-6                                                                |
| Shock resistance                      | 100 gn 11 ms EN/IEC 60068-2-27                                                                      |
| IP degree of protection               | IP65 conforming to EN/IEC 60529<br>IP67 conforming to EN/IEC 60529<br>IP69K conforming to DIN 40050 |

## Ordering and shipping details

|                   |                                          |
|-------------------|------------------------------------------|
| Category          | 22419-PRESSURE SWITCH IEC (HIGH,LOW,GEN) |
| Discount Schedule | DS2                                      |
| GTIN              | 3389119625128                            |
| Returnability     | No                                       |

## Packing Units

|                              |                        |
|------------------------------|------------------------|
| Unit Type of Package 1       | PCE                    |
| Number of Units in Package 1 | 1                      |
| Package 1 Height             | 1.65 in (4.2 cm)       |
| Package 1 Width              | 1.85 in (4.7 cm)       |
| Package 1 Length             | 3.43 in (8.7 cm)       |
| Package 1 Weight             | 2.82 oz (80.0 g)       |
| Unit Type of Package 2       | S01                    |
| Number of Units in Package 2 | 24                     |
| Package 2 Height             | 5.91 in (15.0 cm)      |
| Package 2 Width              | 5.91 in (15.0 cm)      |
| Package 2 Length             | 15.75 in (40.0 cm)     |
| Package 2 Weight             | 4.64 lb(US) (2.104 kg) |

## Offer Sustainability

|                            |                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                                                                                                                                                                                                                                                                             |
| 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>                                                                                                                                                                                                                                                                                                                                                 |
| 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>                                                                                                                                                                                                                                                                                                                                                               |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>                                                                                                                                                                                                                                                                                                                                     |

## Dimensions

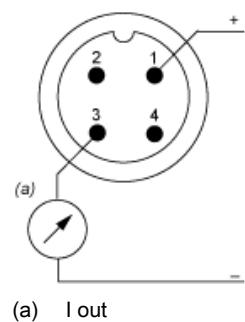


(1) SW24 tightening torque  $\leq 25$  N.m / 221 lb-in

## Connection and Schema

### Wiring Diagram

2-Wire Technique (4-20 mA)

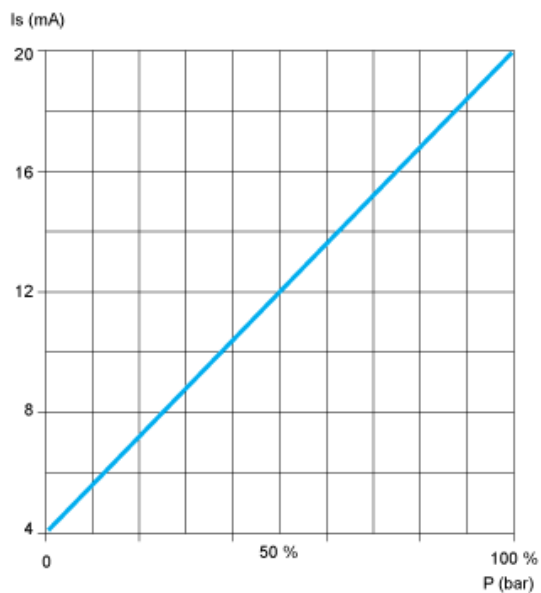


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Performance Curves

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Curves



# Mouser Electronics

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