

# XMLP030RD23F

pressure transmitter 30psi - 4...20mA -  
1/4-18NPT male - FPM - M12



## Main

|                           |                                                                                              |
|---------------------------|----------------------------------------------------------------------------------------------|
| Range of product          | OsiSense XM                                                                                  |
| Product or component type | Electronic pressure sensors                                                                  |
| Pressure sensor type      | Pressure transmitter                                                                         |
| Pressure sensor name      | XMLP                                                                                         |
| Electrical circuit type   | Control circuit                                                                              |
| Pressure sensor size      | 30 psi                                                                                       |
| Local display             | Without                                                                                      |
| Controlled fluid          | Hydraulic oil -15...125 °C<br>Gas -15...125 °C<br>Air -15...125 °C<br>Fresh water 0...125 °C |
| Fluid connection type     | 1/4" - 18 NPT (male)                                                                         |
| 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

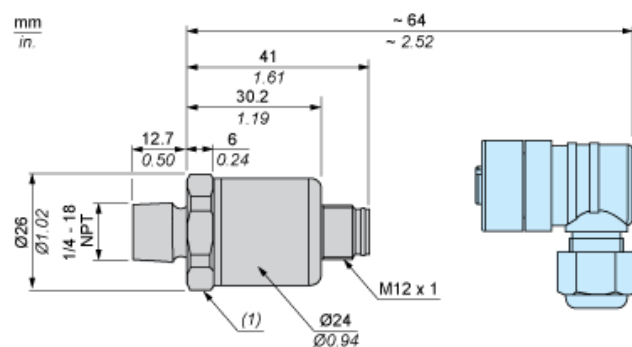
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|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pressure setting range                  | 0 bar...30 psi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Maximum permissible accidental pressure | 109 psi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Destruction pressure                    | 145 psi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 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           | Electrical fast transient/burst immunity test conforming to EN/IEC 61000-4-4 - test level 4 kV<br>Immunity to magnetic fields conforming to EN/IEC 61000-4-8 - test level 100 A/m (f = 50 Hz)<br>1.2/50 µs shock waves immunity test conforming to EN/IEC 61000-4-5 - test level 1 kV (f = 42 Ohm)<br>Electrostatic discharge immunity test conforming to EN/IEC 61000-4-2 - test level 8 kV air, 4 kV contact<br>Radiated RF fields conforming to EN/IEC 61000-4-6 - test level 10 V (f = 0.15...80 MHz)<br>Susceptibility to electromagnetic fields conforming to EN/IEC 61000-4-3 - test level 10 V/m (f = 80...1000 MHz) |
| [Uimp] rated impulse withstand voltage  | 0.5 kV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Response time on output                 | <= 2 ms for 92 % of full scale                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Drift of the sensitivity                | +/- 0.02 % of measuring range/°K                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Drift of the zero point                 | +/- 0.02 % of measuring range/°K                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Measurement accuracy                    | +/- 0.5 % of the measuring range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Repeat accuracy                         | +/- 0.1 % of the measuring range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Mechanical durability                   | >= 10000000 cycles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Product weight                          | 0.075 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

|          |         |
|----------|---------|
| Diameter | 26 mm   |
| Length   | 30.2 mm |

## Environment

|                                       |                                                                                                     |
|---------------------------------------|-----------------------------------------------------------------------------------------------------|
| Standards                             | EN/IEC 61326-2-3<br>NSF ANSI 61                                                                     |
| Product certifications                | CE<br>CULus<br>RCM<br>EAC                                                                           |
| 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 EN/IEC 60068-2-6                                             |
| Shock resistance                      | 100 gn for 11 ms conforming to EN/IEC 60068-2-27                                                    |
| IP degree of protection               | IP69K conforming to DIN 40050<br>IP67 conforming to EN/IEC 60529<br>IP65 conforming to EN/IEC 60529 |

## Dimensions



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

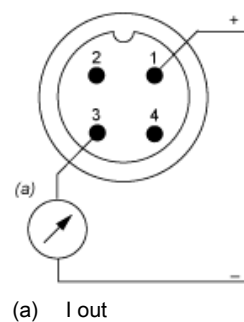
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## Connection and Schema

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### Wiring Diagram

2-Wire Technique (4-20 mA)



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Performance Curves

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Curves

