# Product data sheet
## Characteristics

# XMLP015RD23F
## Electronic pressure sensors, Pressure sensors XM, transmitter 15 PSI, 4...20 mA, 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 | 15 psi (103.42 kPa) |
| Local display | Without |
| Controlled fluid | Fresh water 32…257 °F (0…125 °C))<br>Air 5…257 °F (-15…125 °C))<br>Gas (-15…125 °C)<br>Hydraulic oil 5…257 °F (-15…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

| | |
|---|---|
| Pressure setting range | 0…15 psi (0.00…103.42 kPa) |
| Maximum permissible accidental pressure | 44 psi (303.37 kPa) |
| Destruction pressure | 73 psi (503.32 kPa) |
| Materials in contact with fluid | Fluorocarbon FPM<br>Stainless steel AISI 316L<br>Ceramic |
| Operating position | Any position |
| Protection type | Load short-circuit<br>Reverse polarity |
| Electromagnetic compatibility | Susceptibility to electromagnetic fields conforming to EN/IEC 61000-4-3 10 V/m 80...1000 MHz<br>Radiated RF fields conforming to EN/IEC 61000-4-6 10 V 0.15...80 MHz<br>Electrostatic discharge immunity test conforming to EN/IEC 61000-4-2 8 kV air, 4 kV contact<br>1.2/50 µs shock waves immunity test conforming to EN/IEC 61000-4-5 1 kV 42 Ohm<br>Immunity to magnetic fields conforming to EN/IEC 61000-4-8 100 A/m 50 Hz<br>Electrical fast transient/burst immunity test conforming to EN/IEC 61000-4-4 4 kV |
| [Uimp] rated impulse withstand voltage | 0.5 kV |
| Response time on output | <= 2 ms 10...90 % of full scale |
| Measurement accuracy | +/- 0.5 % of the measuring range |
| Resolution | 0.1 % of the measuring range |
| Drift of the sensitivity | +/- 0.02 % of measuring range/°K |
| Drift of the zero point | +/- 0.02 % of measuring range/°K |
| Long term stability | +/- 0.25 % of the measuring range |
| Mechanical durability | 10000000 cycles |

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This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications.
It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof.
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| | |
|---|---|
| Net Weight | 0.17 lb(US) (0.075 kg) |
| Diameter | 1.02 in (26 mm) |
| Length | 1.19 in (30.2 mm) |

## Environment

| | |
|---|---|
| Standards | NSF ANSI 61<br>EN/IEC 61326-2-3 |
| Product certifications | RCM<br>CULus<br>CE<br>EAC |
| 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 for 11 ms conforming to 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 | 21561 - XMLK,XMLP PRESSURE TRANSMITTERS |
| Discount Schedule | DS2 |
| GTIN | 00785901470465 |
| Nbr. of units in pkg. | 1 |
| Package weight(Lbs) | 1 lb(US) (0.45 kg) |
| Returnability | No |
| Country of origin | CH |

## Packing Units

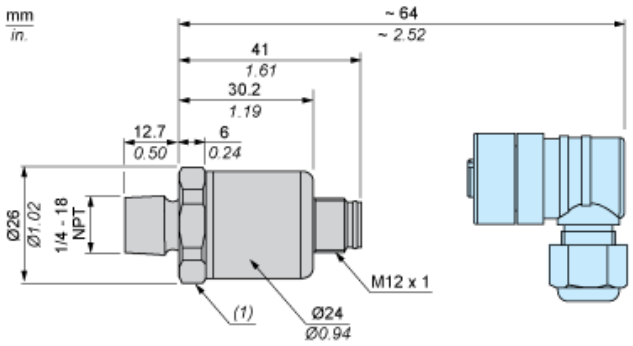
| | |
|---|---|
| Unit Type of Package 1 | PCE |
| Package 1 Height | 1.61 in (4.1 cm) |
| Package 1 width | 1.77 in (4.5 cm) |
| Package 1 Length | 3.35 in (8.5 cm) |

## 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 www.P65Warnings.ca.gov |
| REACh Regulation | REACh Declaration |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| Environmental Disclosure | Product Environmental Profile |

# XMLP015RD23F

## Dimensions

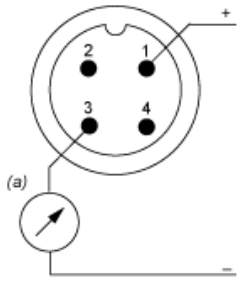



(1) SW24 tightening torque ≤ 25 N.m / 221 lb-in

## Connection and Schema

### Wiring Diagram

2-Wire Technique (4-20 mA)




(a) I out

## Performance Curves

### Curves

