# Product data sheet
## Characteristics

# XMEP250BT11F
## pressure transmitter - XMEP - 250bar - G1/4A male - 0,5..4,5V - Deutsch - set 1




### Main

| | |
|---|---|
| Range of product | OsiSense XM |
| Product or component type | Electronic pressure sensors |
| Pressure sensor type | Pressure transmitter |
| Pressure sensor name | XMEP |
| Electrical circuit type | Control circuit |
| Pressure sensor size | 250 bar |
| Local display | Without |
| Controlled fluid | Fresh water 0...125 °C<br>Air -30...125 °C<br>Hydraulic oil -30...125 °C |
| Fluid connection type | G 1/4A (male) conforming to DIN 3852-E |
| Electrical connection | DEUTSCH connector DT04-3P 3 pins |
| [Us] rated supply voltage | 5 V DC SELV, voltage limits: 4.5...5.5 V |
| Current consumption | < 7 mA |
| Type of output signal | Analogue |
| Analogue output function | 0.5...4.5 V, 3-wire |
| Quantity per set | Set of 1 |
| Type of packing | Individual |

### Complementary

| | |
|---|---|
| Pressure setting range | 0...250 bar |
| Maximum permissible accidental pressure | 750 bar |
| Destruction pressure | 1500 bar |
| Materials in contact with fluid | Stainless steel AISI 316L<br>Fluorocarbon FPM |
| Operating position | Any position |
| Protection type | Load short-circuit<br>Reverse polarity |
| Electromagnetic compatibility | Susceptibility to conducted disturbances conforming to EN/IEC 61000-4-6 criteria A - test level 30 V (f = 0.15...80 MHz)<br>Electrical fast transient/burst immunity test conforming to EN/IEC 61000-4-4 criteria A - test level 4 kV<br>Susceptibility to conducted transient disturbances conforming to ISO 7637-2 criteria B - test level level 3<br>Electrostatic discharge immunity test conforming to ISO 10605 criteria A - test level 15 kV air, 15 kV contact<br>Susceptibility to electromagnetic fields conforming to ISO 11452-4 criteria A - test level 100 mA (f = 20…400 MHz)<br>Susceptibility to electromagnetic fields conforming to ISO 11452-2 criteria A - test level 100 V/m (f = 200…2000 MHz) |
| [Uimp] rated impulse withstand voltage | 0.5 kV |
| Response time on output | <= 2 ms for 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 | +/- 0.5 % of the measuring range |
| Mechanical durability | 10000000 cycles |
| Product weight | 0.098 kg |

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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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| | |
|---|---|
| Diameter | 26 mm |
| Length | 65.5 mm |

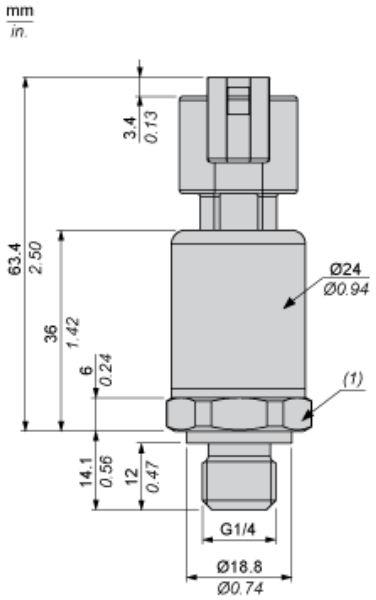
## Environment

| | |
|---|---|
| Standards | UL 61010-1<br>EN/IEC 61326-2-3<br>ECE 10R-5<br>ISO 13766<br>EN 13309<br>ISO 14982 |
| Product certifications | CE<br>CULus<br>E2 |
| Ambient air temperature for operation | -40...100 °C |
| Ambient air temperature for storage | -50...100 °C |
| Vibration resistance | 12 gn sinus (f = 20...520 Hz) conforming to ISO 16750-3 test 4<br>18 gn random (f = 10...2000 Hz) conforming to ISO 16750-3 test 4 |
| Shock resistance | 50 gn for 11 ms conforming to EN/IEC 60068-2-27 |
| IP degree of protection | IP69K conforming to EN/IEC 60529<br>IP65 conforming to EN/IEC 60529<br>IP67 conforming to EN/IEC 60529 |

## Offer Sustainability

| | |
|---|---|
| Sustainable offer status | Green Premium product |
| RoHS (date code: YYWW) | Compliant - since 1702 - Schneider Electric declaration of conformity<br>Schneider Electric declaration of conformity |
| REACh | Reference not containing SVHC above the threshold |
| Product environmental profile | Available |
| Product end of life instructions | Need no specific recycling operations |

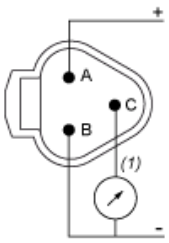
## Dimensions




(1) SW24, tightening torque ☐ 24 N-m / 212 lb-in

## Connections and Schema

### Connector Wiring




(1) V out

## Performance Curves

### Curves

