Product data sheet

Specifications

Green Premium™

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

XMLP250MD21F

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 rating	250 mbar
Local display	Without
Controlled fluid	Fresh water (0…125 °C) Air (-15…125 °C) Gas (-15…125 °C) 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 Stainless steel AISI 316L Ceramic
Operating position	Any position
Protection type	Reverse polarity Load short-circuit
Electromagnetic compatibility	Susceptibility to electromagnetic fields conforming to EN/IEC 61000-4-3 10 V/m 80...1000 MHz Radiated RF fields conforming to EN/IEC 61000-4-6 10 V 0.15...80 MHz Electrostatic discharge immunity test conforming to EN/IEC 61000-4-2 8 kV air, 4 kV contact 1.2/50 µs shock waves immunity test conforming to EN/IEC 61000-4-5 1 kV 42 Ohm

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Immunity to magnetic fields conforming to EN/IEC 61000-4-8 100 A/m 50 Hz
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 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	EN/IEC 61326-2-3 NSF ANSI 61
Product certifications	cULus CE RCM 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	IP65 conforming to EN/IEC 60529 IP67 conforming to EN/IEC 60529 IP69K conforming to DIN 40050

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	80.0 g
Package 1 Height	4.2 cm
Package 1 width	4.7 cm
Package 1 Length	8.7 cm
Unit Type of Package 2	S01
Number of Units in Package 2	24
Package 2 Weight	2.199 kg
Package 2 Height	15.0 cm
Package 2 width	15.0 cm
Package 2 Length	40.0 cm

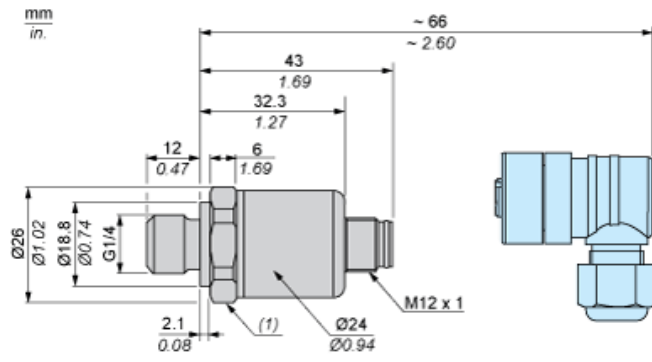## Offer Sustainability

Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration

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Mercury free	Yes
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
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

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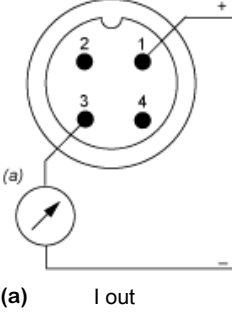
Dimensions

(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