

XMLPM00GD11F

Electronic pressure sensors, Pressure sensors XM, vacuum transmitter -1 bar, 0,5...4,5 V, G1/4 A 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 rating	-1...0 bar
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	5 V DC SELV (voltage limits: 4.5...5.5 V)
Current consumption	< 5 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	-1...0 bar
Maximum permissible accidental pressure	3 bar
Destruction pressure	5 bar
Materials in contact with fluid	Ceramic Fluorocarbon FPM Stainless steel AISI 316L
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 Electrical fast transient/burst immunity test conforming to EN/IEC 61000-4-4 2 kV 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 Immunity to magnetic fields conforming to EN/IEC 61000-4-8 100 A/m 50 Hz
[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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Net weight	0.075 kg
Diameter	26 mm
Length	32.3 mm



Environment

Standards	NSF ANSI 61 EN/IEC 61326-2-3
Product certifications	CULus RCM CE 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

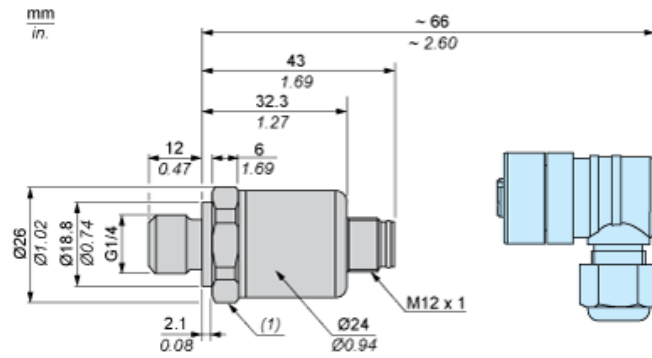
Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	79 g
Package 1 Height	4.3 cm
Package 1 width	4.8 cm
Package 1 Length	8.7 cm
Unit Type of Package 2	S01
Number of Units in Package 2	24
Package 2 Weight	2.113 kg
Package 2 Height	15 cm
Package 2 width	15 cm
Package 2 Length	40 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
Mercury free	Yes
RoHS exemption information	 Yes
Environmental Disclosure	 Product Environmental Profile

Dimensions

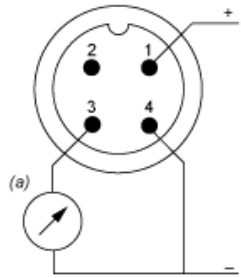


(1) SW24 tightening torque ≤ 25 N.m / 221 lb-in

Connection and Schema

Wiring Diagram

3-Wire Technique (0-10 V)



(a) V out

Performance Curves

Curves

