

XMLPM00GC11F

Electronic pressure sensors, Pressure sensors
XM, vacuum transmitter -1 bar, 0,5...4,5 V,
G1/4 A male, FPM, DIN



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 EN 175301-803-A (ex DIN43650) 3 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	Stainless steel AISI 316L Ceramic Fluorocarbon FPM
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
Net weight	0.095 kg
Diameter	26 mm
Length	55 mm

Environment

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

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	95 g
Package 1 Height	4.1 cm
Package 1 width	4.5 cm
Package 1 Length	8.5 cm

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	 REACH Declaration
REACH free of SVHC	Yes
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

Technical drawing of the 1000 Series Motor showing dimensions in mm and inches. The drawing includes a side view and a front view. Key dimensions are:

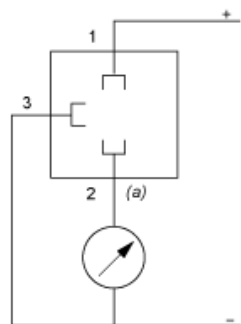
- Overall length: 84 mm (~ 3.31 in.)
- Distance from mounting flange to center of shaft: 54.8 mm (2.16 in.)
- Distance from mounting flange to center of shaft (alternative measurement): 32.3 mm (1.27 in.)
- Distance from mounting flange to center of shaft (alternative measurement): 12 mm (0.47 in.)
- Distance from mounting flange to center of shaft (alternative measurement): 6 mm (0.24 in.)
- Shaft diameter: Ø26 mm (Ø1.02 in.)
- Shaft diameter: Ø18.8 mm (Ø0.74 in.)
- Shaft diameter: Ø17.4 mm (Ø0.69 in.)
- Shaft diameter: Ø16.8 mm (Ø0.66 in.)
- Shaft diameter: Ø16.2 mm (Ø0.64 in.)
- Shaft diameter: Ø15.6 mm (Ø0.62 in.)
- Shaft diameter: Ø15.0 mm (Ø0.59 in.)
- Shaft diameter: Ø14.4 mm (Ø0.57 in.)
- Shaft diameter: Ø13.8 mm (Ø0.54 in.)
- Shaft diameter: Ø13.2 mm (Ø0.52 in.)
- Shaft diameter: Ø12.6 mm (Ø0.50 in.)
- Shaft diameter: Ø12.0 mm (Ø0.47 in.)
- Shaft diameter: Ø11.4 mm (Ø0.45 in.)
- Shaft diameter: Ø10.8 mm (Ø0.43 in.)
- Shaft diameter: Ø10.2 mm (Ø0.40 in.)
- Shaft diameter: Ø9.6 mm (Ø0.38 in.)
- Shaft diameter: Ø9.0 mm (Ø0.35 in.)
- Shaft diameter: Ø8.4 mm (Ø0.33 in.)
- Shaft diameter: Ø7.8 mm (Ø0.31 in.)
- Shaft diameter: Ø7.2 mm (Ø0.28 in.)
- Shaft diameter: Ø6.6 mm (Ø0.26 in.)
- Shaft diameter: Ø6.0 mm (Ø0.24 in.)
- Shaft diameter: Ø5.4 mm (Ø0.21 in.)
- Shaft diameter: Ø4.8 mm (Ø0.19 in.)
- Shaft diameter: Ø4.2 mm (Ø0.17 in.)
- Shaft diameter: Ø3.6 mm (Ø0.14 in.)
- Shaft diameter: Ø3.0 mm (Ø0.12 in.)
- Shaft diameter: Ø2.4 mm (Ø0.09 in.)
- Shaft diameter: Ø1.8 mm (Ø0.07 in.)
- Shaft diameter: Ø1.2 mm (Ø0.05 in.)
- Shaft diameter: Ø0.6 mm (Ø0.02 in.)
- Shaft diameter: Ø0.0 mm (Ø0.00 in.)

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

Connection and Schema

Wiring Diagram

2-Wire Technique (4-20 mA)



(a) V out

Performance Curves

Curves

