



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	50 psi
Local display	Without
Controlled fluid	Hydraulic oil -15...125 °C Gas -15...125 °C Air -15...125 °C Fresh water 0...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 25
Type of packing	Group

Complementary

Pressure setting range	0 bar...50 psi
Maximum permissible accidental pressure	174 psi
Destruction pressure	232 psi
Materials in contact with fluid	Ceramic Stainless steel AISI 316L Fluorocarbon FPM
Operating position	Any position
Protection type	Load short-circuit Reverse polarity
Electromagnetic compatibility	Electrical fast transient/burst immunity test conforming to EN/IEC 61000-4-4 - test level 4 kV Immunity to magnetic fields conforming to EN/IEC 61000-4-8 - test level 100 A/m (f = 50 Hz) 1.2/50 µs shock waves immunity test conforming to EN/IEC 61000-4-5 - test level 1 kV (f = 42 Ohm) Electrostatic discharge immunity test conforming to EN/IEC 61000-4-2 - test level 8 kV air, 4 kV contact Radiated RF fields conforming to EN/IEC 61000-4-6 - test level 10 V (f = 0.15...80 MHz) Susceptibility to electromagnetic fields conforming to EN/IEC 61000-4-3 - test level 10 V/m (f = 80...1000 MHz)
[Uimp] rated impulse withstand voltage	0.5 kV
Response time on output	<= 2 ms for 92 % of full scale
Drift of the sensitivity	+/- 0.02 % of measuring range/°K
Drift of the zero point	+/- 0.02 % of measuring range/°K
Measurement accuracy	+/- 0.5 % of the measuring range
Repeat accuracy	+/- 0.1 % of the measuring range
Mechanical durability	>= 10000000 cycles
Product weight	0.075 kg

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Diameter	26 mm
Length	30.2 mm

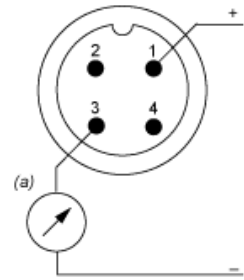
Environment

Standards	EN/IEC 61326-2-3 NSF ANSI 61
Product certifications	CE CULus 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	IP69K conforming to DIN 40050 IP67 conforming to EN/IEC 60529 IP65 conforming to EN/IEC 60529

Connection and Schema

Wiring Diagram

2-Wire Technique (4-20 mA)



(a) I out

Performance Curves

Curves

