

Product Datasheet

Characteristic

XMLK300P2D23

pressure sensor XMLK - 0..300psi -
1/4NPT - 4..20mA - M12 - set of 1



Main

range of product	OsiSense XM
product or component type	Electronic pressure sensors
pressure sensor type	Pressure transmitter
pressure sensor name	XMLK
electrical circuit type	Control circuit
pressure sensor size	300 psi (2068.43 kPa)
local display	Without
controlled fluid	Air 32...176 °F (0...80 °C) Fresh water 32...176 °F (0...80 °C)
fluid connection type	1/4" - 18 NPT (male)
electrical connection	1 male connector M12 4 pins
[Us] rated supply voltage	24 V DC SELV 8...33 V
current consumption	< 20 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...300 psi (0.00...2068.43 kPa)
maximum permissible accidental pressure	600 psi (4136.85 kPa)
destruction pressure	900 psi (6205.28 kPa)
materials in contact with fluid	Ceramic Nitrile (NBR) Stainless steel type AISI 303
operating position	Any position
protection type	Load short-circuit Reverse polarity
electromagnetic compatibility	Electrostatic discharge immunity test EN/IEC 61000-4-2 8 kV air, 6 kV contact Susceptibility to electromagnetic fields EN/IEC 61000-4-3 10 V/m 80...1000 MHz Electrical fast transient/burst immunity test EN/IEC 61000-4-4 2 kV 1.2/50 µs shock waves immunity test EN/IEC 61000-4-5 500 V 12 Ohm, 1 kV 42 Ohm Radiated RF fields EN/IEC 61000-4-6 10 V 0.15...80 MHz Immunity to magnetic fields EN/IEC 61000-4-8 30 A/m 50 Hz

[Uimp] rated impulse withstand voltage	0.5 kV
response time on output	< 5 ms
measurement accuracy	+/- 1 % of the measuring range
accuracy	0.1 % of the measuring range
drift of the sensitivity	+/- 0.04 % of measuring range/°K
drift of the zero point	+/- 0.03 % of measuring range/°K
repeat accuracy	+/- 1 % of the measuring range
mechanical durability	10000000 cycles
Net Weight	0.24 lb(US) (0.11 kg)
diameter	1.42 in (36 mm)
length	2.58 in (65.5 mm)
scale type	Fixed differential

Environment

standards	CE EN/IEC 61326-2-3
product certifications	UL 508 CSA C22.2 No 14 EAC RCM
protective treatment	TC
ambient air temperature for operation	32...176 °F (0...80 °C)
ambient air temperature for storage	-13...176 °F (-25...80 °C)
vibration resistance	20 gn 9...2000 Hz) EN/IEC 60068-2-6
shock resistance	25 gn 11 ms EN/IEC 60068-2-27
IP degree of protection	IP65 EN/IEC 60529
NEMA degree of protection	NEMA 4

Offer Sustainability

REACH Regulation	Free of Substances of Very High Concern above the threshold
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
RoHS exemption information	Yes