



## Main

Range of product	OsiSense XM
Product or component type	Electronic pressure sensors
Pressure switch type of operation	Detection at each threshold
Pressure sensor name	XMLF
Wiring technique	4-wire
Pressure sensor size	145.04 psi (10 bar)
Fluid connection type	1/4" - 18 NPT (female)
Controlled fluid	Air 5...176 °F (-15...80 °C) Corrosive fluid 5...176 °F (-15...80 °C) Hydraulic oil 5...176 °F (-15...80 °C) Fresh water 32...176 °F (0...80 °C)
Type of output signal	Discrete
Discrete output type	Solid state 2 x (PNP or NPN programmable), 2 x (1 NO or 1 NC programmable)
Electrical connection	Male connector M12, 4 pins
Product specific application	Dual stage
Adjustable range of switching point on rising pressure	11.60...145.04 psi (0.8...10 bar)
Adjustable range of switching point on falling pressure	7.25...140.69 psi (0.5...9.7 bar)
Destruction pressure	870.23 psi (60 bar)
Type of installation	Control circuit
Scale type	Adjustable differential scale
Maximum switching current	200 mA
[Us] rated supply voltage	24 V DC 17...33 V
Materials in contact with fluid	Stainless steel type AISI 303

## Complementary

Setting	External setting
Possible differential minimum at low setting	4.35 psi (0.3 bar)
Possible differential minimum at high setting	4.35 psi (0.3 bar)
Possible differential maximum at high setting	137.79 psi (9.5 bar)

Maximum permissible accidental pressure	580.15 psi (40 bar)
Local display	With
Protection type	Short-circuit protection Overload protection Reverse polarity Connection faults
Current consumption	80 mA
Operating rate in Hz	50 Hz
Drift of the sensitivity	+/- 0.03 % of measuring range/°C
Drift of the zero point	+/- 0.1 % of measuring range/°C
Time delay range	0...50 s in steps of 1 second
Response time on output	5...500 ms, in steps of 1 ms
Mechanical durability	10000000 cycles
Display response time type	Normal Slow Fast
Height	4.45 in (113 mm)
Depth	2.28 in (58 mm)
Width	1.81 in (46 mm)
Net weight	1.06 lb(US) (0.48 kg)
Surge withstand	0.5 kV DC
Measurement accuracy	<= 0.6 % of the measuring range
Repeat accuracy	0.5 %

## Environment

Operating position	Any position
Standards	EN/IEC 61000-4-2 EN/IEC 61000-4-11 EN/IEC 61000-4-3 EN/IEC 61000-4-4 EN/IEC 61000-4-6 EN/IEC 61000-6-2 CE EN/IEC 61000-4-5 EN/IEC 60947-1 EN/IEC 61000-4-8 EN 50081 EN 50082 EN/IEC 60947-5-1
Product certifications	UL CSA
Ambient air temperature for operation	-13...176 °F (-25...80 °C)
Vibration resistance	35 gn 60...2000 Hz)EN/IEC 60068-2-6 5 gn 25...200 Hz)EN/IEC 60068-2-6
Protective treatment	TC
Shock resistance	50 gn EN/IEC 60068-2-27
Resistance to fast transients	2 kV EN/IEC 61000-4-4
IP degree of protection	IP67 EN/IEC 60529
NEMA degree of protection	NEMA 6 NEMA 12 NEMA 4 NEMA 13
Resistance to electrostatic discharge	4 kV on contact EN/IEC 61000-4-2 8 kV in air EN/IEC 61000-4-2
Resistance to electromagnetic fields	9.14 V/yd (10 V/m) EN/IEC 61000-4-3
Resistance to conducted disturbances	10 V EN/IEC 61000-4-6

## Contractual warranty

---

Warranty	18 months
----------	-----------

---