



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	4 pins male connector M12
Product specific application	Dual stage
Adjustable range of switching point on rising pressure	11.6...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, voltage limits: 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	Connection faults Overload protection Reverse polarity Short-circuit protection
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	Fast Normal Slow
Height	4.45 in (113 mm)
Depth	2.28 in (58 mm)
Width	1.81 in (46 mm)

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

Offer Sustainability

Not Green Premium product	Not Green Premium product
Compliant - since 0627 - Schneider Electric declaration of conformity	Compliant - since 0627 - Schneider Electric declaration of conformity
Reference not containing SVHC above the threshold	Reference not containing SVHC above the threshold

Contractual warranty

Warranty period	18 months
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