



Main

Range of product	OsiSense XM
Product or component type	Electronic pressure sensors
Pressure switch type of operation	Regulation between 2 thresholds
Pressure sensor name	XMLF
Wiring technique	4-wire
Pressure sensor size	3625.94 psi (250 bar)
Fluid connection type	SAE 7/16-20UNF (female)
Controlled fluid	Fresh water (32...176 °F (0...80 °C)) Air (5...176 °F (-15...80 °C)) Corrosive fluid (5...176 °F (-15...80 °C)) Hydraulic oil (5...176 °F (-15...80 °C))
Type of output signal	Analogue + discrete
Analogue output function	4...20 mA
Discrete output type	Solid state PNP or NPN programmable, 1 NO or 1 NC programmable
Electrical connection	4 pins male connector M12
Product specific application	-
Adjustable range of switching point on rising pressure	290.08...3625.94 psi (20...250 bar)
Adjustable range of switching point on falling pressure	181.3...3517.17 psi (12.5...242.5 bar)
Destruction pressure	21755.66 psi (1500 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	FPM (Viton) Stainless steel type AISI 303

Complementary

Setting	External setting
Possible differential minimum at low setting	108.78 psi (7.5 bar)
Possible differential minimum at high setting	108.78 psi (7.5 bar)

Possible differential maximum at high setting	3444.65 psi (237.5 bar)
Maximum permissible accidental pressure	14503.77 psi (1000 bar)
Local display	With
Protection type	Overload protection Short-circuit protection Connection faults Reverse polarity
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 Fast Slow
Height	4.45 in (113 mm)
Depth	2.28 in (58 mm)
Width	1.81 in (46 mm)
Product weight	1.3 lb(US) (0.59 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 60947-5-1 EN/IEC 61000-4-11 EN/IEC 61000-4-4 EN 50082 EN/IEC 61000-6-2 EN/IEC 60947-1 EN/IEC 61000-4-5 EN/IEC 61000-4-2 EN/IEC 61000-4-3 EN 50081 EN/IEC 61000-4-8 CE EN/IEC 61000-4-6
Product certifications	UL CSA
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 4 NEMA 6 NEMA 12 NEMA 13
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

RoHS (date code: YYWW)	Compliant - since 0627 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity
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Contractual warranty

Warranty period	18 months
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