



Main

Range of product	OsiSense XM
Product or component type	Electronic pressure sensors
Pressure sensor type	Pressure transmitter
Pressure switch type of operation	Pressure transmitter with 1 switching output
Device short name	XMLR
Pressure sensor size	5800 psi 400 bar 40 MPa
Maximum permissible accidental pressure	120 MPa 17400 psi 1200 bar
Destruction pressure	34800 psi 240 MPa 2400 bar
Controlled fluid	Fresh water (0...80 °C) Air (-20...80 °C) Hydraulic oil (-20...80 °C) Refrigeration fluid (-20...80 °C)
Fluid connection type	1/4" - 18 NPT (female)
[Us] rated supply voltage	24 V DC SELV, voltage limits: 17...33 V

Complementary

Current consumption	<= 50 mA
Electrical connection	4 pins M12 male connector
Type of output signal	Analogue + discrete
Analogue output function	4...20 mA
Analogue output function	4...20 mA
Discrete output type	Solid state NPN, NO/NC programmable
Maximum switching current	250 mA
Voltage drop	<= 2 V

Adjustable range of switching point on rising pressure	3.2...40 MPa 464...5800 psi 32...400 bar
Adjustable range of switching point on falling pressure	290...5626 psi 20...388 bar 2...38.8 MPa
Minimum differential travel	1.2 MPa 174 psi 12 bar
Materials in contact with fluid	316L stainless steel
Front material	Polyester
Housing material	Polyacrylamide 316L stainless steel
Operating position	Any position, but disposals can falsified the measurement in case of upside down mounting
Protection type	Overload protection Short-circuit protection Overvoltage protection Reverse polarity
Response time on output	<= 10 ms for analog output <= 5 ms for discrete output
Time delay range	0...50 s in steps of 1 second
Display type	4 digits 7 segments
Local signalling	1 LED yellow for light ON when switch is actuated
Display response time type	Fast 50 ms Normal 200 ms Slow 600 ms
Delay first up	<= 300 ms
Accuracy	<= 1 % of the measuring range
Linearity error	<= 0.5 % of the measuring range
Hysteresis	<= 0.2 % of the measuring range
Measurement accuracy	<= 0.6 % of the measuring range
Repeat accuracy	<= 0.2 % of the measuring range
Drift of the sensitivity	+/- 0.03 % of measuring range/°C
Drift of the zero point	+/- 0.1 % of measuring range/°C
Display accuracy	<= 1 % of the measuring range
Mechanical durability	>= 10000000 cycles
Depth	42 mm
Height	88 mm
Width	41 mm
Product weight	0.186 kg
[Uimp] rated impulse withstand voltage	0.5 kV DC
Electromagnetic compatibility	Electrostatic discharge immunity test - test level 8 kV air, 4 kV contact conforming to EN/IEC 61000-4-2 Susceptibility to electromagnetic fields - test level 10 V/m (80...2000 MHz) conforming to EN/IEC 61000-4-3 Electrical fast transient/burst immunity test - test level 2 kV conforming to EN/IEC 61000-4-4 Surge immunity test - test level 1 kV conforming to EN/IEC 61000-4-5 Immunity to conducted RF disturbances - test level 10 V (0.15...80 MHz) conforming to EN/IEC 61000-4-6

Environment

Marking	CE
Product certifications	CULus EAC
Standards	UL 61010-1 EN/IEC 61326-2-3
Ambient air temperature for operation	-20...80 °C
Ambient air temperature for storage	-40...80 °C
IP degree of protection	IP65 conforming to EN/IEC 60529