Product data sheet
Characteristics

XMLR2D5G0T75
Pressure sensors XMLR 2,5bar - G 1/4 - 24VDC - 0..10 V - M12

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
Device short name	XMLR
Pressure sensor size	36 Psi (248.21 kPa) 36.26 Psi (250 kPa) 36.26 psi (2.5 bar)
Maximum permissible accidental pressure	174.05 Psi (1200 kPa) 174.05 Psi (12 bar) 174 psi (1199.69 kPa)
Destruction pressure	174.05 Psi (12 bar) 174 Psi (1199.69 kPa) 174.05 psi (1200 kPa)
Controlled fluid	Fresh water 32…176 °F (0…80 °C)) Air -4…176 °F (-20…80 °C)) Hydraulic oil -4…176 °F (-20…80 °C)) Refrigeration fluid -4…176 °F (-20…80 °C))
Fluid connection type	G 1/4 (female) DIN 3852-Y
[Us] rated supply voltage	24 V DC SELV 17…33 V)

Complementary

Current consumption	<= 50 mA
Electrical connection	Male connector M12, 4 pins
Analogue output function	0...10 V
Type of output signal	Analogue
Analogue output function	0...10 V
Scale type	Fixed differential
Materials in contact with fluid	316L stainless steel Fluorocarbon FKM (Viton) Ceramic
Front material	Polyester
Housing material	316L stainless steel Polyacrylamide
Operating position	Any position, but disposals can falsified the measurement in case of upside down mounting
Protection type	Overload protection Reverse polarity Overvoltage protection Short-circuit protection
Response time on output	<= 10 ms analog output
Display type	4 digits 7 segments
Display response time type	Fast 50 ms Normal 200 ms Slow 600 ms
Maximum delay first up	300 ms
Overall accuracy	<= 1 % of the measuring range
Linearity error on analogue output	<= 0.5 % of the measuring range
Hysteresis on analogue output	<= 0.2 % of the measuring range
Measurement accuracy on switching output	<= 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	1.65 in (42 mm)
Height	3.66 in (93 mm)
Width	1.61 in (41 mm)
Net weight	0.42 lb(US) (0.19 kg)
[Uimp] rated impulse withstand voltage	0.5 kV DC
Electromagnetic compatibility	Susceptibility to electromagnetic fields 10 V/m 80...2000 MHz EN/IEC 61000-4-3 Immunity to conducted RF disturbances 10 V 0.15...80 MHz EN/IEC 61000-4-6 Surge immunity test 1 kV EN/IEC 61000-4-5 Electrical fast transient/burst immunity test 2 kV EN/IEC 61000-4-4 Electrostatic discharge immunity test 8 kV air, 4 kV contact EN/IEC 61000-4-2

Environment

Marking	CE
Product certifications	EAC CULus
Standards	UL 61010-1 EN/IEC 61326-2-3
Ambient air temperature for operation	-4…176 °F (-20…80 °C)
Ambient air temperature for storage	-40…176 °F (-40…80 °C)
IP degree of protection	IP65 EN/IEC 60529 IP67 conforming to EN/IEC 60529
Vibration resistance	20 gn 10…2000 Hz)EN/IEC 60068-2-6
Shock resistance	50 gn EN/IEC 60068-2-27

Ordering and shipping details

Category	21551 - XMLE,XMLF,XMLG PRESSURE SENSORS
Discount Schedule	DS2
GTIN	03389119610162
Nbr. of units in pkg.	1
Package weight(Lbs)	1 lb(US) (0.45 kg)
Returnability	No
Country of origin	CH

Packing Units

Unit Type of Package 1	PCE
Package 1 Height	2.56 in (6.5 cm)
Package 1 width	2.95 in (7.5 cm)
Package 1 Length	5.00 in (12.7 cm)

Offer Sustainability

California proposition 65	WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
REACh Regulation	REACh Declaration
REACh free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes

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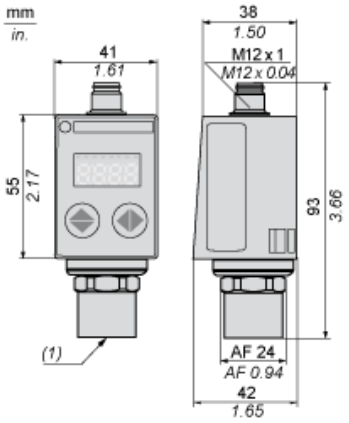
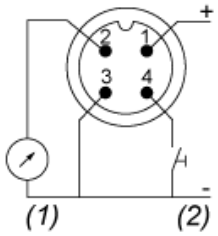
Dimensions



(1) Fluid entry: G 1/4 A female

Connections and Schema

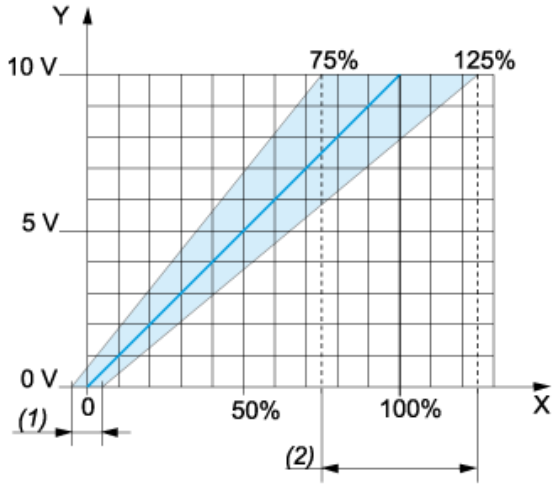
Connector Wiring



(1) I Out or V Out
(2) Test Input

Analogue Output Description

Analogue Output Signal



X : Pressure
Y : Analogue output signal
(1) An offset of +/-5% of nominal pressure can be compensated (with Cof Configuration menu. Cof: Offset Compensation)
(2) The Analogue curve can be adjusted from -25% to +25% of nominal pressure (with AEP Configuration menu. AEP: analogue end point).