XMLR2D5G1P75

Electronic pressure sensors, Pressure sensors XM, XMLR 2,5 bar, G 1/4, 24 VDC, 0...10 V, PNP, 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 with 1 switching output
Device short name	XMLR
Pressure Rating	36 Psi (248.21 kPa) 36.26 Psi (2.5 bar) 36.26 psi (250 kPa)
Maximum permissible accidental pressure	174.05 Psi (1200 kPa) 174.05 Psi (12 bar) 174 psi (1199.69 kPa)
Destruction pressure	174 Psi (1199.69 kPa) 174.05 Psi (1200 kPa) 174.05 psi (12 bar)
Controlled fluid	Fresh water 32176 °F (080 °C)) Air -4176 °F (-2080 °C)) Hydraulic oil -4176 °F (-2080 °C)) Refrigeration fluid -4176 °F (-2080 °C))
Fluid connection type	G 1/4 (female) DIN 3852-Y
[Us] rated supply voltage	24 V DC SELV 1733 V)

Complementary

in case of upside down
- -

Protection Type	Overvoltage protection Overload protection Short-circuit protection
Response time on output	Reverse polarity <= 10 ms analog output
	<= 5 ms discrete output
Switching output time delay	050 s in steps of 1 second
Display Type	4 digits 7 segments
Local signalling	For light ON when switch is actuated 1 LED (yellow)
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 802000 MHz EN/IEC 61000-4-3 Immunity to conducted RF disturbances 10 V 0.1580 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	CULus EAC	
Standards	UL 61010-1 EN/IEC 61326-2-3	
Ambient Air Temperature for Operation	-4176 °F (-2080 °C)	
Ambient Air Temperature for Storage	-40176 °F (-4080 °C)	
IP degree of protection	IP65 conforming to EN/IEC 60529 IP67 conforming to EN/IEC 60529	
Vibration resistance	20 gn 102000 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	3389119610193
Nbr. of units in pkg.	1
Package weight(Lbs)	6.38 oz (181.0 g)
Returnability	No
Country of origin	СН

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)	

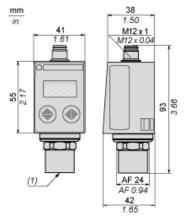
Offer Sustainability

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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) EVEN RoHS
Mercury free	Yes
RoHS exemption information	₫Yes

Product data sheet Dimensions Drawings

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Dimensions



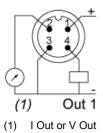
(1) Fluid entry: G 1/4 A female

Product data sheet Connections and Schema

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Connections and Schema

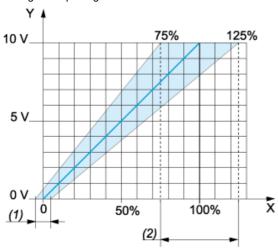
Connector Wiring



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Analogue Output Description

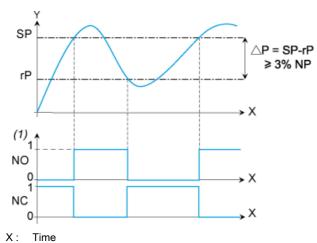
Analogue Output Signal



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

Switching Output Description. Hysteresis Mode

The hysteresis switching mode is typically used for the "pumping and/or emptying applications".

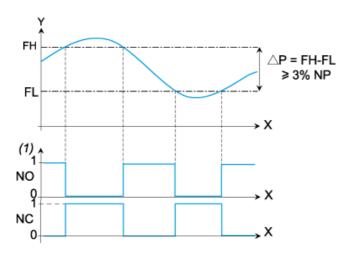


Pressure (1) Output NP: Nominal Pressure

SP: Set point (adjustable from 8 % to 100 % NP) rP: Reset point (adjustable from 5 % to 97 % NP)

Switching Output Description. Window Mode

The window switching mode is typically used for the "pressure regulation applications"



X: Time Y: Pressure (1) Output

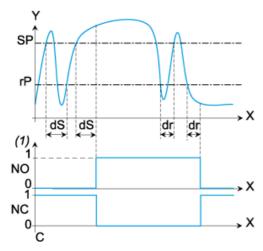
NP: Nominal pressure

FH: High switching point (adjustable from 8 % to 100 % NP) FL: Low switching point (adjustable from 5 % to 97 % NP)

Switching Output Description. Time Delay

The Time Delay is typically used to filter out the fast pressure transients.

The output only switches after a time "dS" and "dr" adjustable from 0 to 50 seconds.



X: Time
Y: Pressure
(1) Output
SP: Set point
rP: Reset point

dS: Time delay on the set point dr: Time delay on the reset point