XMLR2D5G2N06



Main

Range of product	OsiSense XM	
Product or component type	Electronic pressure sensors	
Pressure sensor type	Pressure transmitter	
Pressure switch type of operation Pressure switch with 2 switching outputs		
Device short name	XMLR	
Pressure sensor size	36.26 psi (2.5 bar) 36 psi 250 kPa	
Maximum permissible accident pressure	al 174.05 psi (12 bar) 174 psi 1200 kPa	
Destruction pressure	174.05 psi (12 bar) 174 psi 1200 kPa	
Controlled fluid	Fresh water (32176 °F (080 °C)) Air (-2080 °C) Hydraulic oil (-2080 °C) Refrigeration fluid (-2080 °C)	
Fluid connection type	1/4" - 18 NPT (female)	
[Us] rated supply voltage	24 V DC SELV, voltage limits: 1733 V	

Complementary

<= 50 mA
4 pins M12 male connector
Discrete
Solid state NPN, 2 NO/NC programmable
250 mA
2 NO/NC programmable
Fixed differential
<= 2 V
2.936.26 psi (0.22.5 bar) 2.936.2 psi 20250 kPa
1.8935.1 psi (0.132.42 bar) 1.8135.2 psi 13242 kPa
1.16 psi (0.08 bar) 1.1 psi 8 kPa
Ceramic Fluorocarbon FKM (Viton) 316L stainless steel
Polyester
Polyacrylamide 316L stainless steel
Any position, but disposals can falsified the measurement in case of upside down mounting
Overload protection Overvoltage protection Reverse polarity Short-circuit protection
<= 5 ms discrete output
050 s in steps of 1 second
4 digits 7 segments
2 LEDs yellow 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
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	1.65 in (42 mm)
Height	3.94 in (100 mm)
Width	1.61 in (41 mm)
Product weight	0.47 lb(US) (0.212 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 (802000 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 (0.1580 MHz) conforming to EN/IEC 61000-4-6

Environment

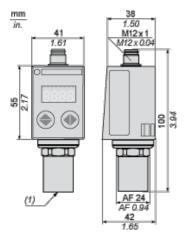
marking	CE
product certifications	CULus EAC
standards	UL 61010-1 EN/IEC 61326-2-3
ambient air temperature for operation	-4176 °F (-2080 °C)
ambient air temperature for storage	-40176 °F (-4080 °C)
IP degree of protection	IP65 conforming to EN/IEC 60529 IP67 conforming to EN/IEC 60529
vibration resistance	20 gn (f = 102000 Hz) conforming to EN/IEC 60068-2-6
shock resistance	50 gn conforming to EN/IEC 60068-2-27

Offer Sustainability

Not Green Premium product	Not Green Premium product
Compliant - since 1351 - Schneider Electric declaration of conformity	Compliant - since 1351 - Schneider Electric declaration of conformity
Reference not containing SVHC above the threshold	Reference not containing SVHC above the threshold
WARNING: This product can expose you to chemicals including:	WARNING: This product can expose you to chemicals including:
Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and	Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and
Di-isodecyl phthalate (DIDP), which is known to the StateDi-isodecyl phthalate (DIDP), which is known to the State of California to cause birth of California to cause birth defects or other reproductive defects or other reproductive harm.	
For more information go to www.p65warnings.ca.gov	For more information go to www.p65warnings.ca.gov

Dimensions

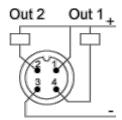




(1) Fluid entry: 1/4"-18NPT female

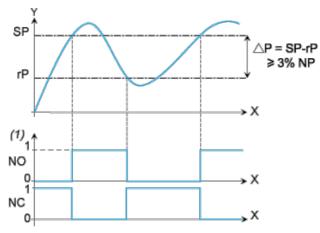
Connections and Schema

Connector Wiring



Switching Output Description. Hysteresis Mode

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



X: Time

Y: Pressure

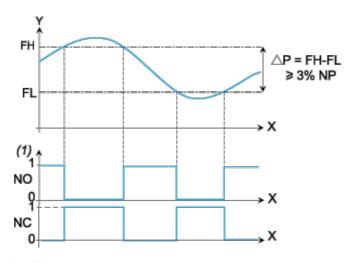
(1) Output

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

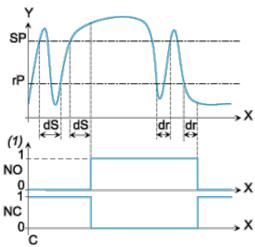
NP: Nominal pressure

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