XMLR250M2P05

Pressure sensors XMLR 250bar - G 1/4 - 24VDC - 2xPNP - M12



Main

Range of product	OsiSense XM
Product or component type	Electronic pressure sensors
Pressure sensor type	Pressure transmitter
Pressure switch type of operatio	n Pressure switch with 2 switching outputs
Device short name	XMLR
Pressure sensor size	250 bar 3620 psi
Maximum permissible accidenta pressure	ıl 750 bar 10875 psi 75 MPa
Destruction pressure	1500 bar 21750 psi 150 MPa
Controlled fluid	Fresh water (080 °C) Air (-2080 °C) Hydraulic oil (-2080 °C) Refrigeration fluid (-2080 °C)
Fluid connection type	G 1/4 (female) conforming to DIN 3852-Y
[Us] rated supply voltage	24 V DC SELV, voltage limits: 1733 V

Complementary

<= 50 mA
4 pins M12 male connector
Discrete
Solid state PNP, 2 NO/NC programmable
250 mA
2 NO/NC programmable
Fixed differential
<= 2 V
20250 bar 2903625 psi 225 MPa
1813516 psi 12.5242 bar 1.2524.2 MPa
7.5 bar 109 psi 0.75 MPa
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 for discrete output
050 s in steps of 1 second
4 digits 7 segments
4 digits 7 segments 2 LEDs yellow for light ON when switch is actuated

	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	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 (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

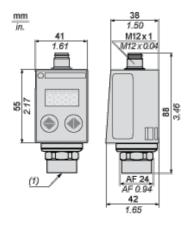
Environment

marking	CE
product certifications	CULus EAC
standards	UL 61010-1 EN/IEC 61326-2-3
ambient air temperature for operation	-2080 °C
ambient air temperature for storage	-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

Sustainable offer status	Not Green Premium product
RoHS (date code: YYWW)	Compliant - since 1351 - Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold

Dimensions

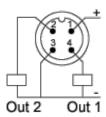


(1) Fluid entry: G 1/4 A female



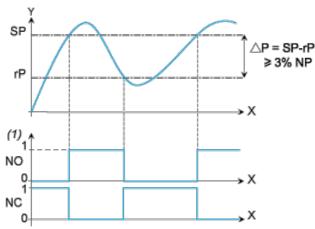
Connections and Schema

Connector Wiring



Switching Output Description. Hysteresis Mode

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



X: TimeY: Pressure

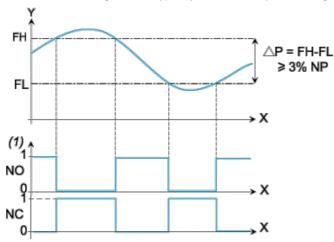
(1) Output

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

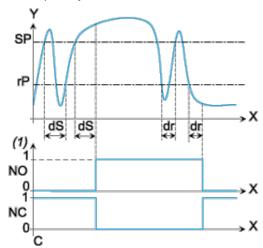
NP: Nominal pressure

FH: High switching point (adjustable from 8 % to 100 % NP)

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