## XMLR001G2N06

Electronic pressure sensors, Pressure sensors XM, XMLR 1 bar, 1/4" 18 NPT, 24 VDC, 2xNPN, M12



#### Main

Range of product	Telemecanique Pressure sensors 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 rating	1 Bar 100.0 KPa 100 kPa
Maximum permissible accidental pressure	750 KPa 7.5 Bar 751.5 kPa
Destruction pressure	751.5 KPa 750 KPa 7.5 bar
Controlled fluid	Fresh water (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

Current consumption	<= 50 mA
Electrical connection	**
	Male connector M12, 4 pins
Type of output signal	Discrete
Discrete output type	Solid state NPN, 2 NO/NC programmable
Maximum switching current	250 mA
Contacts type and composition	2 NO/NC programmable
Scale type	Fixed differential
Maximum voltage drop	2 V
Adjustable range of switching point on rising pressure	0.081 Bar 8.00100.0 KPa 8100 kPa
Adjustable range of switching point on falling pressure	597 KPa 0.050.97 Bar 5.0397.2 kPa
Minimum differential travel	2.96 KPa 0.03 Bar 3 kPa
Materials in contact with fluid	Ceramic Fluorocarbon FKM (Viton) 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

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not interest of and is not to be used for determining suitability or flushed products for specific user applications. It is the documentation is not integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither TMSS Holding nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Protection type	Reverse polarity Overload protection
	Short-circuit protection
	Overvoltage protection
Response time on output	<= 5 ms for discrete output
Switching output time delay	050 s in steps of 1 second
Display type	4 digits 7 segments
Local signalling	2 LEDs (yellow) for light ON when switch is actuated
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
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	42 mm
Height	100 mm
Width	41 mm
Net weight	0.212 kg
[Uimp] rated impulse withstand voltage	0.5 kV DC
Electromagnetic compatibility	Susceptibility to electromagnetic fields: 10 V/m 802000 MHz conforming to IEC 61000-4-3 Immunity to conducted RF disturbances: 10 V 0.1580 MHz conforming to IEC 61000-4-6 Surge immunity test: 1 kV conforming to IEC 61000-4-5 Electrical fast transient/burst immunity test: 2 kV conforming to IEC 61000-4-4 Electrostatic discharge immunity test: 8 kV air, 4 kV contact conforming to IEC 61000-4-2

## Environment

Marking	CE
Product certifications	cULus
Standards	IEC 61326-2-3 UL 61010-1
Ambient air temperature for operation	-2080 °C
Ambient air temperature for storage	-4080 °C
IP degree of protection	IP65 conforming to IEC 60529 IP67 conforming to IEC 60529
Vibration resistance	20 gn (f= 102000 Hz) conforming to IEC 60068-2-6
Shock resistance	50 gn conforming to IEC 60068-2-27

## Packing Units

PCE	
1	
6.5 cm	
7.5 cm	
12.7 cm	
181.0 g	
	1 6.5 cm 7.5 cm 12.7 cm

## Offer Sustainability

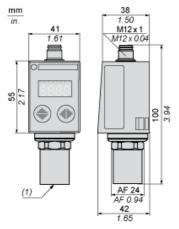
California proposition 65	WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
For all Reach Rohs enquiries contact us at	sustainability@tesensors.com



# Product data sheet Dimensions Drawings

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## **Dimensions**



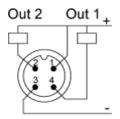
(1) Fluid entry: 1/4"-18NPT female

## Product data sheet Connections and Schema

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## Connections and Schema

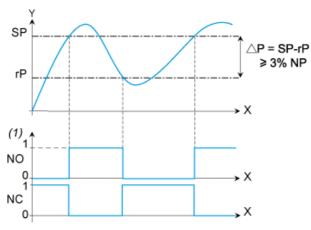
## **Connector Wiring**



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#### Switching Output Description. Hysteresis Mode

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



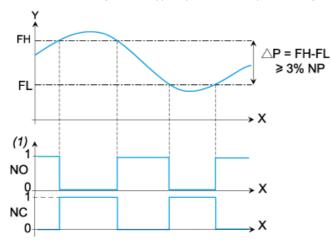
X: Time Y: Pressure (1) Output

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

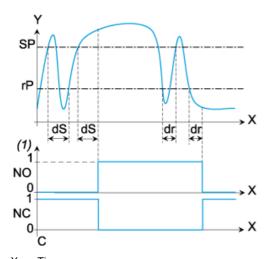
NP: Nominal pressure

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