Product data sheet
Characteristics

XMLR010G1N25
Electronic pressure sensors, Pressure sensors XM, XMLR 10 bar, G 1/4, 24 VDC, 4...20 mA, NPN, 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 transmitter with 1 switching output
Device short name	XMLR
Pressure rating	999.7 KPa 10 bar
Maximum permissible accidental pressure	40 Bar 4 MPa 3999.0 kPa
Destruction pressure	3999.0 KPa 40 Bar 4 MPa
Controlled fluid	Fresh water (0…80 °C) Air (-20…80 °C) Hydraulic oil (-20…80 °C) Refrigeration fluid (-20…80 °C)
Fluid connection type	G 1/4 (female) conforming to DIN 3852-Y
[Us] rated supply voltage	24 V DC SELV (voltage limits: 17…33 V)

Complementary

Current consumption	<= 50 mA
Electrical connection	Male connector M12, 4 pins
Analogue output function	4...20 mA
Type of output signal	Analogue + discrete
Analogue output function	4...20 mA
Discrete output type	Solid state NPN, NO/NC programmable
Maximum switching current	250 mA
Contacts type and composition	NO/NC programmable
Scale type	Fixed differential
Maximum voltage drop	2 V
Adjustable range of switching point on rising pressure	80.0…999.7 KPa 0.8…10 Bar 0.08…1 MPa
Adjustable range of switching point on falling pressure	0.5…9.7 Bar 0.05…0.97 MPa 49.99…972.2 kPa
Minimum differential travel	29.99 KPa 0.3 Bar 30 kPa
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	Short-circuit protection Overload protection Reverse polarity Overvoltage protection
Response time on output	<= 10 ms for analog output <= 5 ms for discrete output
Switching output time delay	0...50 s in steps of 1 second
Display type	4 digits 7 segments
Local signalling	1 LED (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
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	42 mm
Height	93 mm
Width	41 mm
Net weight	0.19 kg
[Uimp] rated impulse withstand voltage	0.5 kV DC
Electromagnetic compatibility	Susceptibility to electromagnetic fields: 10 V/m 80...2000 MHz conforming to IEC 61000-4-3 Immunity to conducted RF disturbances: 10 V 0.15...80 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	UL 61010-1 IEC 61326-2-3
Ambient air temperature for operation	-20…80 °C
Ambient air temperature for storage	-40…80 °C
IP degree of protection	IP65 conforming to IEC 60529 IP67 conforming to IEC 60529
Vibration resistance	20 gn (f= 10…2000 Hz) conforming to IEC 60068-2-6
Shock resistance	50 gn conforming to IEC 60068-2-27

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	6.600 cm
Package 1 Width	7.500 cm
Package 1 Length	12.800 cm
Package 1 Weight	192.000 g
Unit Type of Package 2	S02
Number of Units in Package 2	20
Package 2 Height	15 cm
Package 2 Width	30 cm

Package 2 Length	40 cm
Package 2 Weight	4.174 kg

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