XMLR400M0T25

Electronic pressure sensors, Pressure sensors XM, XMLR 400 bar, G 1/4, 24 VDC, 4...20 mA, 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
Device short name	XMLR
Pressure Rating	5800 Psi (39989.59 kPa) 5801.51 psi (400 bar)
Maximum permissible accidental pressure	17400 Psi (119968.77 kPa) 120 MPa 17404.53 psi (1200 bar)
Destruction pressure	240 MPa 34809.06 Psi (2400 bar) 34800 psi (239937.54 kPa)
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

Complementary	
Current Consumption	<= 50 mA
Electrical connection	Male connector M12, 4 pins
Analogue output function	420 mA
Type of output signal	Analogue
Analogue output function	420 mA
Scale type	Fixed differential
Materials in contact with fluid	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
Protection Type	Overvoltage protection Short-circuit protection Overload protection Reverse polarity
Response time on output	<= 10 ms analog output
Display Type	4 digits 7 segments
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	3.46 in (88 mm)
Width	1.61 in (41 mm)
Net Weight	0.41 lb(US) (0.186 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	EAC cULus	
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

21551-XMLE,XMLF,XMLG PRESSURE SENSORS
DS2
3389119611800
1
6.49 oz (184.0 g)
No
CH

Packing Units

r doking office	
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	5.12 in (13 cm)
Unit Type of Package 2	S02
Number of Units in Package 2	20
Package 2 Weight	8.86 lb(US) (4.02 kg)
Package 2 Height	5.91 in (15 cm)
Package 2 width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)

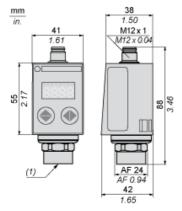
Offer Sustainability

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
REACh Regulation	☑ REACh Declaration
REACh free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	₫Yes

Product data sheet Dimensions Drawings

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Dimensions



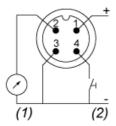
(1) Fluid entry: G 1/4 A female

Product data sheet Connections and Schema

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Connections and Schema

Connector Wiring



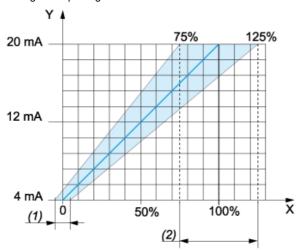
(1) I Out or V Out (2) Test Input

Life Is On Schneider

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Analogue Output Description

Analogue Output Signal



- Pressure
- Analogue output signal
- (1) (2) An offset of +/-5% of nominal pressure can be compensated (with Cof Configuration menu. Cof: Offset Compensation)

 The analogue curve can be adjusted from -25% to +25% of nominal pressure (with AEP Configuration menu. AEP: analogue end point).