

Product availability: Stock - Normally stocked in distribution facility



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 sensor size	362 psi 362.59 psi (25 bar)
Maximum permissible accidental pressure	1450 psi 10 MPa 1450.38 psi (100 bar)
Destruction pressure	1450 psi 10 MPa 1450.38 psi (100 bar)
Controlled fluid	Fresh water (32...176 °F (0...80 °C)) Air (-20...80 °C) Hydraulic oil (-20...80 °C) Refrigeration fluid (-20...80 °C)
Fluid connection type	1/4" - 18 NPT (female)
[Us] rated supply voltage	24 V DC SELV, voltage limits: 17...33 V

Complementary

Current consumption	<= 50 mA
Electrical connection	4 pins M12 male connector
Analogue output function	4...20 mA
Type of output signal	Analogue
Analogue output function	4...20 mA
Scale type	Fixed differential
Materials in contact with fluid	Fluorocarbon FKM (Viton) Ceramic 316L stainless steel
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	Reverse polarity Overload protection Overvoltage protection Short-circuit protection
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
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	3.94 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 (80...2000 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 (0.15...80 MHz) conforming to EN/IEC 61000-4-6

Environment

Marking	CE
Product certifications	CULus EAC
Standards	EN/IEC 61326-2-3 UL 61010-1
Ambient air temperature for operation	-4...176 °F (-20...80 °C)
Ambient air temperature for storage	-40...176 °F (-40...80 °C)
IP degree of protection	IP65 conforming to EN/IEC 60529 IP67 conforming to EN/IEC 60529
Vibration resistance	20 gn (f = 10...2000 Hz) conforming to EN/IEC 60068-2-6
Shock resistance	50 gn conforming to EN/IEC 60068-2-27

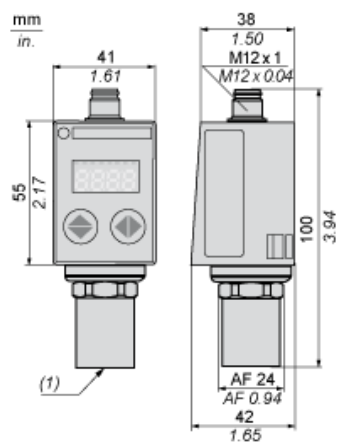
Ordering and shipping details

Category	21551 - XMLE,XMLF,XMLG PRESSURE SENSORS
Discount Schedule	DS2
GTIN	00785901288190
Nbr. of units in pkg.	1
Package weight(Lbs)	0.4700000000000003
Returnability	Y
Country of origin	CH

Offer Sustainability

RoHS (date code: YYWW)	Compliant - since 1351 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
California proposition 65	WARNING: This product can expose you to chemicals including:
- - - - - Substance 1	Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and
- - - - - Substance 2	Diisodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm.
- - - - - More information	For more information go to www.p65warnings.ca.gov

Dimensions



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

Connections and Schema

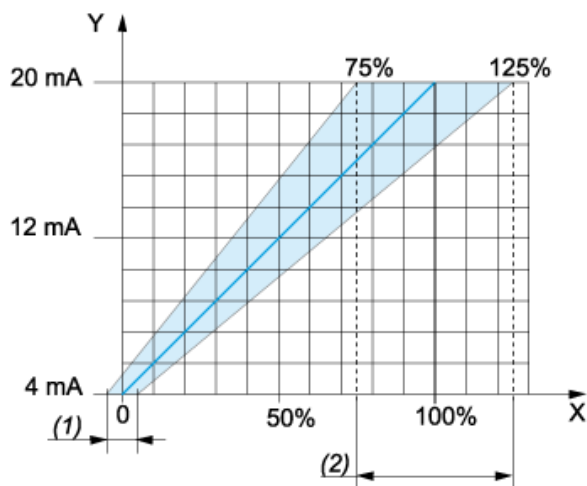
Connector Wiring



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

Analogue Output Description

Analogue Output Signal



X : Pressure

Y : Analogue output signal

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

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

Mouser Electronics

Authorized Distributor

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