



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 with 1 switching output
Device short name	XMLR
Pressure sensor size	1450 Psi (9997.40 kPa) 1450.38 psi (100 bar)
Maximum permissible accidental pressure	4351.13 Psi (300 bar) 4350 Psi (29992.19 kPa) 30 MPa
Destruction pressure	60 MPa 8700 Psi (59984.39 kPa) 8702.26 psi (600 bar)
Controlled fluid	Fresh water 32...176 °F (0...80 °C)) Air -4...176 °F (-20...80 °C)) Hydraulic oil -4...176 °F (-20...80 °C)) Refrigeration fluid -4...176 °F (-20...80 °C))
Fluid connection type	G 1/4 (female) DIN 3852-Y
[Us] rated supply voltage	24 V DC SELV 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	116...1450 Psi (799.79...9997.40 kPa) 116.03...1450.38 Psi (8...100 bar) 0.8...10 MPa
Adjustable range of switching point on falling pressure	0.5...9.7 MPa 72.5...1407 Psi (499.87...9700.92 kPa) 72.52...1406.87 psi (5...97 bar)
Minimum differential travel	43.51 Psi (3 bar) 0.3 MPa 43.5 psi (299.92 kPa)
Materials in contact with fluid	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 Overvoltage protection Short-circuit protection Overload protection

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Response time on output	<= 10 ms analog output <= 5 ms discrete output
Switching output time delay	0...50 s in steps of 1 second
Display type	4 digits 7 segments
Local signalling	Light ON when switch is actuated 1 LED yellow)
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 80...2000 MHz EN/IEC 61000-4-3 Immunity to conducted RF disturbances 10 V 0.15...80 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	-4...176 °F (-20...80 °C)
Ambient air temperature for storage	-40...176 °F (-40...80 °C)
IP degree of protection	IP65 EN/IEC 60529 IP67 conforming to EN/IEC 60529
Vibration resistance	20 gn 10...2000 Hz)EN/IEC 60068-2-6
Shock resistance	50 gn EN/IEC 60068-2-27

Ordering and shipping details

Category	21551 - XMLE,XMLF,XMLG PRESSURE SENSORS
Discount Schedule	DS2
GTIN	03389119611275
Nbr. of units in pkg.	1
Package weight(Lbs)	0.41 lb(US) (0.19 kg)
Returnability	No
Country of origin	CH

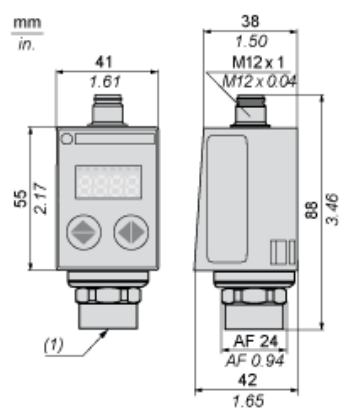
Packing Units

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	5.00 in (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
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

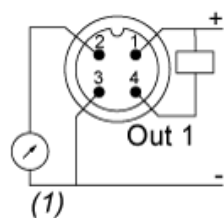
Dimensions



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

Connections and Schema

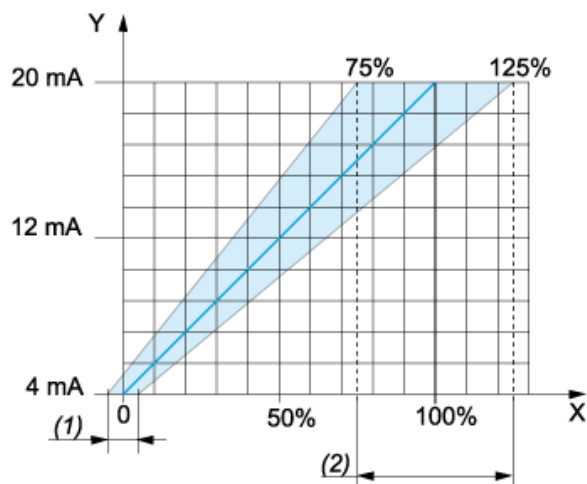
Connector Wiring



(1) I Out or V Out

Analogue Output Description

Analogue Output Signal



X : Pressure

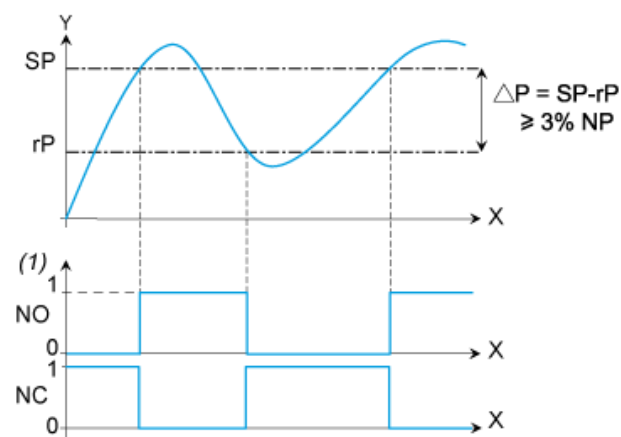
Y : Analogue output signal

(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).

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

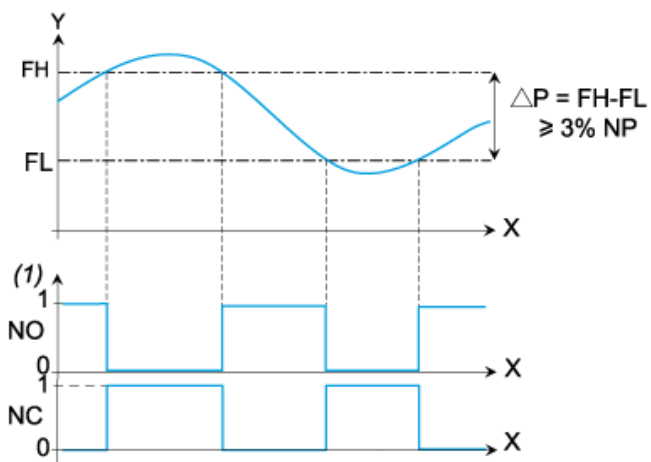
NP : Nominal Pressure

SP : Set point (adjustable from 8 % to 100 % NP)

rP : Reset point (adjustable from 5 % to 97 % NP)

Switching Output Description. Window Mode

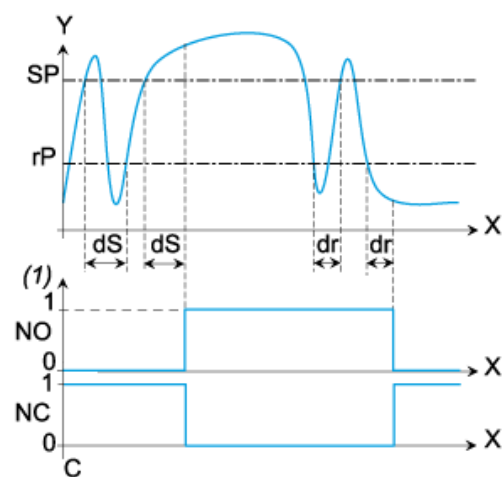
The window switching mode is typically used for the "pressure regulation applications"



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