

Product availability: Non-Stock - Not 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 with 1 switching output
Device short name	XMLR
Pressure sensor size	362.59 psi (25 bar) 362 psi
Maximum permissible accidental pressure	10 MPa 1450.38 psi (100 bar) 1450 psi
Destruction pressure	10 MPa 1450.38 psi (100 bar) 1450 psi
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 + discrete
Analogue output function	4...20 mA
Discrete output type	Solid state PNP, NO/NC programmable
Maximum switching current	250 mA
Contacts type and composition	NO/NC programmable
Scale type	Fixed differential
Voltage drop	<= 2 V
Adjustable range of switching point on rising pressure	29.01...362.59 psi (2...25 bar) 0.2...2.5 MPa 29...362 psi
Adjustable range of switching point on falling pressure	0.125...2.42 MPa 18.1...352 psi 18.13...350.99 psi (1.25...24.2 bar)
Minimum differential travel	10.88 psi (0.75 bar) 75 kPa 10.9 psi
Materials in contact with fluid	316L stainless steel Ceramic Fluorocarbon FKM (Viton)
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 products of the Schneider Electric group. It is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or 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 Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Protection type	Short-circuit protection Overvoltage protection Overload protection Reverse polarity
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	1 LED yellow light ON when switch is actuated
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 - XMLF,XMLF,XMLG PRESSURE SENSORS
Discount Schedule	DS2
GTIN	00785901289722
Nbr. of units in pkg.	1
Package weight(Lbs)	0.46000000000000002
Returnability	N
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

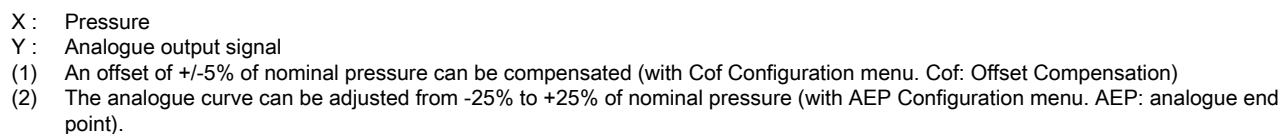
Connections and Schema

Connector Wiring

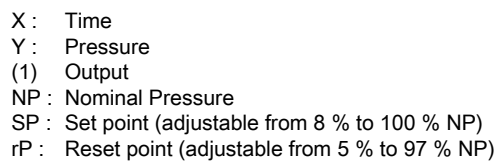


(1) I Out or V Out

Analogue Output Signal



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



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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Schneider Electric:](#)

[XMLR025G1P26](#)