XMLR600M2P05

Pressure sensors XMLR 600bar - G 1/4 - 24VDC - 2xPNP - 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 switch with 2 switching outputs
Device short name	XMLR
Pressure sensor size	8700 Psi (59984.39 kPa) 8702.26 psi (600 bar)
Maximum permissible accidental pressure	21750 Psi (149960.96 kPa) 150 MPa 21755.66 psi (1500 bar)
Destruction pressure	250 MPa 36250 Psi (249934.94 kPa) 36259.44 psi (2500 bar)
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

upside down
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The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not inherenced 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 documentation is not be used to perform the appropriate and complete risk analysis, evaluation of the products with respect to the relevant specific application or use thereof. Neither Schmeider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Local signalling	Light ON when switch is actuated 2 LEDs 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	
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 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

Category	21551 - XMLE,XMLF,XMLG PRESSURE SENSORS
Discount Schedule	DS2
GTIN	03389119612098
Nbr. of units in pkg.	1
Package weight(Lbs)	1 lb(US) (0.45 kg)
Returnability	No
Country of origin	СН

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	5.12 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)	

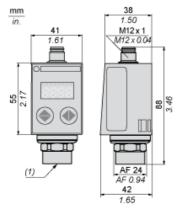
Offer Sustainability

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

XMLR600M2P05

Dimensions



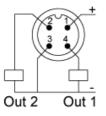
(1) Fluid entry: G 1/4 A female

Product data sheet Connections and Schema

XMLR600M2P05

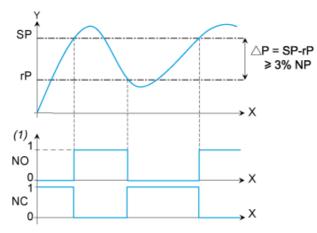
Connections and Schema

Connector Wiring



Switching Output Description. Hysteresis Mode

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



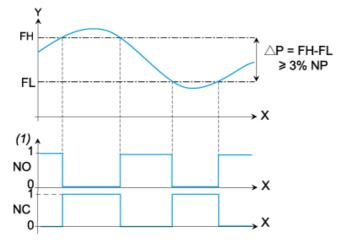
X: Time Y: Pressure (1) Output

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

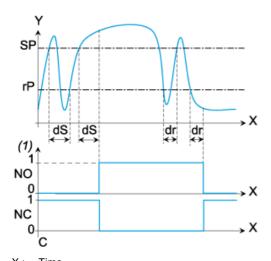
NP: Nominal pressure

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