

# XMLF100D2025

pressure sensor 100 bar - G1/4 (female) - 24 V  
- NO or NC - 4..20 mA



## Main

Range of product	OsiSense XM
Product or component type	Electronic pressure sensors
Pressure switch type of operation	Regulation between 2 thresholds
Pressure sensor name	XMLF
Controlled fluid	Air (-15...80 °C) Corrosive fluid (-15...80 °C) Fresh water (-15...80 °C) Hydraulic oil (-15...80 °C) Sea water (-15...80 °C)
Discrete output type	Solid state PNP or NPN programmable, 1 NO or 1 NC programmable
Electrical connection	4 pins male connector M12
Fluid connection type	G 1/4 (female) conforming to ISO 228
Analogue output function	4...20 mA
Adjustable range of switching point on rising pressure	8...100 bar
Adjustable range of switching point on falling pressure	5...97 bar
Pressure sensor size	100 bar
Product specific application	-
Type of output signal	Analogue + discrete
Destruction pressure	600 bar
Type of installation	Control circuit
Scale type	Adjustable differential scale
Maximum switching current	200 mA
[Us] rated supply voltage	24 V DC, voltage limits: 17...33 V
Materials in contact with fluid	FPM (Viton) Stainless steel type AISI 303

## Complementary

Setting	External setting
Possible differential minimum at low setting	3 bar
Possible differential minimum at high setting	3 bar
Possible differential maximum at high setting	95 bar
Maximum permissible accidental pressure	400 bar
Local display	With
Protection type	Connection faults Overload protection Reverse polarity Short-circuit protection
Current consumption	80 mA
Operating rate in Hz	<= 50 Hz
Drift of the sensitivity	< +/- 0.03 % of msrg range /°C
Drift of the zero point	< +/- 0.1 % of msrg range /°C
Time delay range	0...50 s in steps of 1 second

Response time on output	5...500 ms, in steps of 1 ms
Mechanical durability	>= 10000000 cycles
Display response time type	Fast Normal Slow
CAD overall depth	58 mm
CAD overall height	113 mm
CAD overall width	46 mm
Product weight	0.5 kg
Surge withstand	0.5 kV DC
Measurement accuracy	<= 0.6 % of the measuring range
Repeat accuracy	<= 0.5 %

## Environment

Operating position	Any position
Standards	CE EN 50081 EN 50082 EN 61000-4-11 EN 61000-4-2 EN 61000-4-3 EN 61000-4-4 EN 61000-4-5 EN 61000-4-6 EN 61000-4-8 EN 61000-6-2 EN/IEC 60947-1 EN/IEC 60947-5-1
Product certifications	CSA UL
Ambient air temperature for operation	-25...80 °C
Vibration resistance	35 gn (f = 60...2000 Hz) conforming to IEC 68-2-6 5 gn (f = 25...200 Hz) conforming to IEC 68-2-6
Protective treatment	TC
Shock resistance	50 gn conforming to IEC 68-2-27
Resistance to fast transients	2 kV conforming to EN 61000-4-4
IP degree of protection	IP67 conforming to EN/IEC 60529
NEMA degree of protection	NEMA 12 NEMA 13 NEMA 4 NEMA 6
Resistance to electrostatic discharge	4 kV (on contact) conforming to EN 61000-4-2 8 kV (in air) conforming to EN 61000-4-2
Resistance to electromagnetic fields	10 V/m conforming to EN 61000-4-3
Resistance to conducted disturbances, induced by radio frequency fields	10 V conforming to EN 61000-4-6