

Product data sheet

Specifications



pressure sensor 10 bar - G1/4
(female) - 24 V - NO or NC - 4..20
mA

XMLF010D2025

! Discontinued on: 30 June 2015

! Discontinued

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
Wiring technique	4-wire
Pressure rating	10 bar
Fluid connection type	G 1/4 (female) conforming to ISO 228
Controlled fluid	Air (-15...80 °C) Corrosive fluid (-15...80 °C) Hydraulic oil (-15...80 °C) Fresh water (0...80 °C)
Type of output signal	Analogue + discrete
Analogue output function	4...20 mA
Discrete output type	Solid state PNP or NPN programmable, 1 NO or 1 NC programmable
Electrical connection	Male connector M12, 4 pins
Product specific application	-
Adjustable range of switching point on rising pressure	0.8...10 bar
Adjustable range of switching point on falling pressure	0.5...9.7 bar
Destruction pressure	60 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	Stainless steel type AISI 303 FPM (Viton)

Complementary

Setting	External setting
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Possible differential minimum at low setting	0.3 bar
Possible differential minimum at high setting	0.3 bar
Possible differential maximum at high setting	9.5 bar
Maximum permissible accidental pressure	40 bar
Local display	With
Protection type	Reverse polarity Connection faults Overload protection Short-circuit protection
Current consumption	80 mA
Operating rate in Hz	50 Hz
Drift of the sensitivity	+/- 0.03 % of measuring range/°C
Drift of the zero point	+/- 0.1 % of measuring 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	Slow Normal Fast
Height	113 mm
Depth	58 mm
Width	46 mm
Net weight	0.48 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/IEC 61000-4-5 EN/IEC 61000-4-2 EN 50081 EN/IEC 60947-5-1 EN 50082 EN/IEC 61000-4-8 EN/IEC 61000-4-6 EN/IEC 61000-4-11 EN/IEC 61000-4-4 EN/IEC 61000-6-2 EN/IEC 61000-4-3 EN/IEC 60947-1
Product certifications	CSA UL
Ambient air temperature for operation	-25...80 °C
Vibration resistance	35 gn (f= 60...2000 Hz) conforming to EN/IEC 60068-2-6 5 gn (f= 25...200 Hz) conforming to EN/IEC 60068-2-6
Protective treatment	TC
Shock resistance	50 gn conforming to EN/IEC 60068-2-27
Resistance to fast transients	2 kV conforming to EN/IEC 61000-4-4
IP degree of protection	IP67 conforming to EN/IEC 60529

NEMA degree of protection	NEMA 6 NEMA 13 NEMA 12 NEMA 4
Resistance to electrostatic discharge	4 kV on contact conforming to EN/IEC 61000-4-2 8 kV in air conforming to EN/IEC 61000-4-2
Resistance to electromagnetic fields	10 V/m conforming to EN/IEC 61000-4-3
Resistance to conducted disturbances	10 V conforming to EN/IEC 61000-4-6

Packing Units


Package 1 Weight	0.540 kg
Package 1 Height	0.750 dm
Package 1 width	1.370 dm
Package 1 Length	0.650 dm

Contractual warranty

Warranty	18 months
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Recommended replacement(s)

XMLF010D2025 is replaced by the following group of products:

1x		Electronic pressure sensors, Pressure sensors XM, XMLR 10 bar, G 1/4, 24 VDC, 4...20 mA, NPN, M12 XMLR010G1N25
1x		Electronic pressure sensors, Pressure sensors XM, XMLR 10 bar, G 1/4, 24 VDC, 4...20 mA, PNP, M12 XMLR010G1P25