Product data sheet
Characteristics

XMLF025D2025
pressure sensor 25 bar - G1/4 (female) - 24 V - NO or NC - 4..20 mA

Main

Range of product	Telemecanique Pressure sensors 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	25 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	2…25 bar
Adjustable range of switching point on falling pressure	1.2…24.25 bar
Destruction pressure	150 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
Possible differential minimum at low setting	0.75 bar
Possible differential minimum at high setting	0.75 bar
Possible differential maximum at high setting	23.8 bar
Maximum permissible accidental pressure	100 bar
Local display	With
Protection type	Connection faults Reverse polarity 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	Normal Fast Slow
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	EN/IEC 60947-1 EN/IEC 61000-4-6 EN/IEC 61000-4-11 EN/IEC 61000-4-3 EN 50081 CE EN 50082 EN/IEC 61000-4-4 EN/IEC 61000-4-8 EN/IEC 61000-6-2 EN/IEC 60947-5-1 EN/IEC 61000-4-5 EN/IEC 61000-4-2
Product certifications	UL[RETURN]CSA
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 4 NEMA 12
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

Unit Type of Package 1	PCE
Number of Units in Package 1	1

Contractual warranty

Warranty	18 months