

XMLG001D31TQ

pressure sensor XMLG 0.08..1 bar - G1/4A
(male) - 24 V - NC



Main

Range of product	OsiSense XM
Product or component type	Electronic pressure sensors
Pressure sensor type	Electronic pressure sensor
Pressure sensor name	XMLG
Pressure sensor size	1 bar
Fluid connection type	G 1/4A (male) conforming to DIN 3852-E
Controlled fluid	Air (-15...125 °C) Corrosive fluid (-15...125 °C) Hydraulic oil (-15...125 °C) Fresh water (0...125 °C)
Type of output signal	Discrete
Discrete output type	Solid state NPN, 1 NC
Electrical connection	3 pins 1 male connector M12
Adjustable range of switching point on rising pressure	0.08...1 bar
Adjustable range of switching point on falling pressure	0.05...0.97 bar
Setting	Factory setting
[Us] rated supply voltage	12 V DC, voltage limits: 8...33 V 24 V DC, voltage limits: 8...33 V
Quantity per set	Set of 25
Type of packing	Group
Diameter	22.8 mm

Complementary

Possible differential minimum at high setting	0.03 bar
Possible differential minimum at low setting	0.03 bar
Possible differential maximum at high setting	0.95 bar
Maximum permissible accidental pressure	2.7 bar
Destruction pressure	3 bar
Local display	Without
Electrical circuit type	Control circuit
Current consumption	< 4 mA
Maximum switching current	150 mA
Materials in contact with fluid	Ceramic FPM (Viton) Stainless steel type AISI 303
Operating position	Any position
Protection type	Load short-circuit Reverse polarity
Surge withstand	1 kV (42 Ohm) conforming to EN/IEC 61000-4-5 500 kV (12 Ohm) conforming to EN/IEC 61000-4-5
[Uimp] rated impulse withstand voltage	0.5 kV
Response time on output	< 2 ms
Drift of the sensitivity	+/- 0.015 % of measuring range/°C
Drift of the zero point	+/- 0.015 % of measuring range/°C
Measurement accuracy	+/- 1 % of the measuring range
Repeat accuracy	+/- 0.1 % of the measuring range

Mechanical durability	>= 10000000 cycles
Product weight	0.095 kg
Height	58.1 mm

Environment

Standards	CE EN/IEC 61326-2-3
Product certifications	UL 508 CSA C22.2 No 14 EAC
Protective treatment	TC
Ambient air temperature for operation	-15...85 °C
Ambient air temperature for storage	-40...85 °C
Vibration resistance	20 gn (f = 9...2000 Hz) conforming to EN/IEC 60028-2-6
Shock resistance	25 gn for 11 ms conforming to EN/IEC 60068-2-27
Resistance to electrostatic discharge	15 kV (in air) conforming to EN/IEC 61000-4-2 8 kV (on contact) conforming to EN/IEC 61000-4-2
Resistance to electromagnetic fields	200 V/m (80...1000 Hz) conforming to EN/IEC 61000-4-3
Resistance to fast transients	4 kV conforming to EN/IEC 61000-4-4
Resistance to conducted disturbances, induced by radio frequency fields	30 V (0.15...80 Hz) conforming to EN/IEC 61000-4-6
Resistance to magnetic fields	30 A/m (50 Hz) conforming to EN/IEC 61000-4-8
IP degree of protection	IP66 conforming to EN/IEC 60529 IP67 conforming to EN/IEC 60529
NEMA degree of protection	NEMA 4

Offer Sustainability

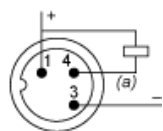
Sustainable offer status	Not Green Premium product
RoHS (date code: YYWW)	Compliant - since 0627 - Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold

Dimensions



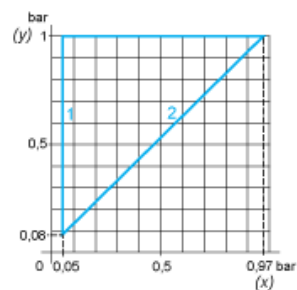
Wiring Diagram

3-Wire Technique (NPN)



(a) Output

Operating Curves



- (y) Rising pressure
(x) Falling pressure
1 : Maximum differential
2 : Minimum differential