IPSLU-M12 series



Low Range Industrial Pressure Sensor with M12 4-Pin connector



The IPSLU-M12 is suitable for use in a wide range of applications. The probe uses a piezo-resistive silicon sensor, giving excellent media compatibility within an oil filled 316L stainless steel housing

The electronics incorporate a microprocessor based amplifier, requiring no adjusting and giving stable electronics, especially in high vibration/shock applications.

Each device is temperature compensated, calibrated and supplied with a traceable serial number and calibration data.*

Custom versions can be made for particular applications.

- Piezo-resistive sensor
- Stainless steel body & diaphragm
- Accuracy <±0.25% FS BFSL
- Various outputs including Volts and mA.
- Pressure ranges from 1 psi to 15 psi
- Gauge or Absolute pressure reference
- 1/4"NPT process connection

Options available on the IPSLU-M12 pressure transmitter.

Pressure range Output type

Mating cable and plug assemblies are available - see datasheet M12 Cable Set Series

Suitable applications

HVAC Mechanical engineering Pneumatics **Environmental engineering** Rainwater harvesting Automotive testing Agricultural machinery Tank gauging

Laboratory testing IBC, IBC Tote or pallet tank

Performance

Accuracy (Non-Linearity & Hysteresis)<±0.25% / FS (BFSL) for gauge reference Setting Errors (offsets) 2-wire Zero & Full Scale, <±0.5% / FS 3-wire Zero & Full Scale, <±0.5% / FS $R_{max} = [(Supply-9min)/0.02]\Omega$ Permissible Load 2-wire 3-wire $R_{\text{\tiny min}}=10\text{k}\Omega$ Influence Effects Supply <0.005% FS / 1V 0.05% FSO / $k\Omega$ Load

Material Specifications

316L Stainless Steel Housing "0" ring seals Viton

Diaphragm 316L Stainless Steel Media wetted parts

Housing & connection, "O" ring seal,

diaphragm

Miscellaneous

2 -wire Limits at 28mA **Current consumption** 3-wire Typical 6mA

Approx 3.5oz (100g) Weight

Installation position Any, small zero shift when tilted through

90°

Operational Life $> 100 \times 10^6$ cycles Insulation resistance > 50M0hms at 50Vdc

Environmental protection IP67 (only when used with a similarly

rated connector)

Electrical Protection

No damage/no function Supply reverse polarity Electromagnetic compatibility **CE Compliant**

Mechanical Stability

Shock 100g / 11s Vibration 10g RMS (20 - 2000Hz)

Temperatures & Thermal Effects

-40°C to +125°C Media Temperature **Ambient Temperature** -20°C to +80°C -40°C to +125°C Storage temperature Compensated temperature range +20°C to +80°C Thermal Zero Shift (TZS) <±0.04% /FS/°C Thermal Span Shift <-0.015% /°C

*Calibration data is supplied as a sticker affixed to the product packaging - do not discard

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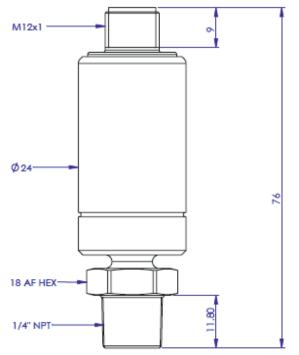
Low Range Industrial Pressure Sensor with M12 4-Pin connector

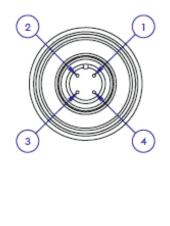
Pressure Ranges								
Nominal Pressure, Gauge,	psi	0.75	1.5	3.75	7.5	11.25	15	
Permissible Overpressure	psi	30	30	30	75	75	75	

Output Signals and Supply Voltages							
Wire system	Output	Supply Voltage	Connection Pin Nos				
2-wire	4-20mA	9-32Vdc	+ve Supply Pin 1	-ve Supply Pin 2	Ground Earth Pin		
3-wire	0-5Vdc	9-32Vdc	+ve Supply Pin 1	-ve Supply Pin 2			
			Output Pin 3	Earth Pin 4			

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Part No	Pressure Range	Output
IPSLU-GP001-5M12	0-1 psi G	4-20mA
IPSLU-GP002-5M12	0-2 psi G	4-20mA
IPSLU-GP005-5M12	0-5 psi G	4-20mA
IPSLU-GP008-5M12	0-8 psi G	4-20mA
IPSLU-GP010-5M12	0-10 psi G	4-20mA
IPSLU-GP015-5M12	0-15 psi G	4-20mA
IPSLU-GP001-6M12	0-1 psi G	0 to 5V 3Wire
IPSLU-GP002-6M12	0-2 psi G	0 to 5V 3Wire
IPSLU-GP005-6M12	0-5 psi G	0 to 5V 3Wire
IPSLU-GP008-6M12	0-8 psi G	0 to 5V 3Wire
IPSLU-GP010-6M12	0-10 psi G	0 to 5V 3Wire
IPSLU-GP015-6M12	0-15 psi G	0 to 5V 3Wire

Mechanical Dimensions





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