



Low Range Industrial Pressure Sensor with M12 4Pin Connector



The IPSL-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
- 4-20mA or 0-5Vdc output.
- Pressure ranges from 50 mbar to 1000 mbar
- M12 4-pin connector

Options available on the IPSL 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) < $\pm 0.25\%$ / FS (BFSL) for gauge, < $\pm 0.5\%$ for Absolute

Setting Errors (offsets) 2-wire Zero & Full Scale, $<\pm0.5\%$ / FS 3-wire Zero & Full Scale, $<\pm0.5\%$ / FS Permissible Load 2-wire $R_{\text{max}} = [(\text{Supply-9min})/0.02]\Omega$ 3-wire $R_{\text{max}} = 10\text{k}\Omega$

 $\begin{array}{ccc} & & & & 3\text{-wire} & & R_{\text{min}} = 10\text{k}\Omega \\ \text{Influence Effects} & & & \text{Supply} & <0.005\% \text{ FS} / 1V \\ \text{Load} & & & 0.05\% \text{ FSO} / \text{k}\Omega \\ \end{array}$

Material Specifications

Housing 316L Stainless Steel

"0" ring seals Viton

Diaphragm 316L Stainless Steel

Media wetted parts Housing & connection, "0" ring seal,

diaphragm

Miscellaneous

Weight

Current consumption 2 -wire Limits at 28mA

3-wire Typical 6mA

Approx 100g

Installation position Any, small zero shift when tilted through

90°

Operational Life > 100x 10⁶ cycles Insulation resistance > 50M0hms at 50Vdc

Environmental protection IP67 (when used with a similarly

rated connector)

Electrical Protection

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

Mechanical Stability

Shock 100g / 11s

Vibration 10g RMS (20 - 2000Hz)

Temperatures & Thermal Effects

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IPSL-M12 2018





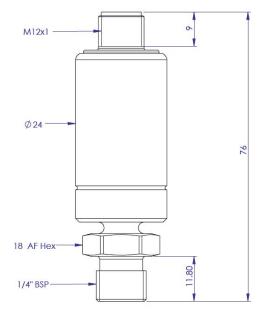
IPSL-M12 series

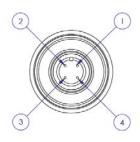
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Pressure Ranges and Passive mV/V Outputs								
Nominal Pressure, Gauge,	mbar	50	100	250	500	750	1000	
Nominal Pressure, Absolute	e mbar				500	750	1000	
Permissible Overpressure	mbar	2 bar	2 bar	2 bar	5 bar	5 bar	5 bar	

Output Signa	als and Supply Voltages	DIN 43650			
Wire system	Output	Supply Volts	Connection	Pin No.	
2-wire	4-20mA	9-32Vdc	+ve Supply -ve Supply Ground	Pin 1 Pin 2 Earth pin	
3-wire	0 - 5Vdc	9-32 Vdc	+ve Supply -ve Supply +ve Output Ground	Pin 1 Pin 2 Pin 3 Pin 4 Earth	

Part No.	Pressure Range	Output	
IPSL-G0050-5M12	0-50mbarG	4-20mA	
IPSL-G0100-5M12	0-100mbarG	4-20mA	
IPSL-G0250-5M12	0-250mbarG	4-20mA	
IPSL-G0500-5M12	0-500mbarG	4-20mA	
IPSL-G0750-5M12	0-750mbarG	4-20mA	
IPSL-G1000-5M12	0-1000mbarG	4-20mA	
IPSL-G0050-6M12	0-50mbarG	0-5V 3-wire	
IPSL-G0100-6M12	0-100mbarG	0-5V 3-wire	
IPSL-G0250-6M12	0-250mbarG	0-5V 3-wire	
IPSL-G0500-6M12	0-500mbarG	0-5V 3-wire	
IPSL-G0750-6M12	0-750mbarG	0-5V 3-wire	
IPSL-G1000-6M12	0-1000mbarG	0-5V 3-wire	





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