

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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)<±0.25% / FS (BFSL) for gauge, <±0.5% for Absolute

Load 0.05% FS0 / kΩ

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 > 50MOhms 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





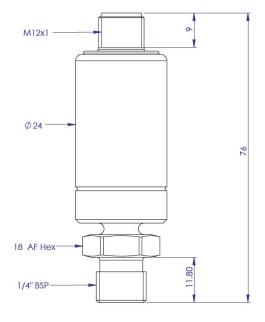
IPSL-M12 series

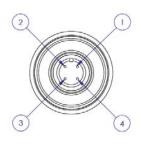
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Pressure Ranges and Passive mV/V Outputs							
Nominal Pressure, Gauge,	mbar	50	100	250	500	750	1000
Nominal Pressure, Absolute	mbar				500	750	1000
Permissible Overpressure	mbar	2 bar	2 bar	2 bar	5 bar	5 bar	5 bar

Output Sig	nals and Supply Voltages	DIN 43650			
Wire system	m Output	Supply Volts	Connection	Pin No.	
2-wire	4-20mA	9-32Vdc	+ve Supply	Pin 1	
			-ve Supply	Pin 2	
			Ground	Earth pin	
3-wire	0 - 5Vdc	9-32 Vdc	+ve Supply	Pin 1	
			-ve Supply	Pin 2	
			+ve Output	Pin 3	
			Ground	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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ISO9001certified