



IPSL series

Low Range Industrial Pressure Sensor



The IPSL 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.*

There is a choice of internal O ring seals to ensure that the device is compatible with a wide range of media.

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 50 mbar to 1000 mbar
- Gauge or Absolute pressure reference

Options available on the IPSL pressure transmitter.

Pressure range Pressure reference (G or Abs) Output type

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

Material Specifications

Housing 303 Stainless Steel

"0" ring seals Viton

Diaphragm 316L Stainless Steel

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

diaphragm

Miscellaneous

Current consumption 2 -wire Limits at 28mA

3-wire Typical 6mA

Weight Approx 100g

Installation position Any, small zero shift when tilted through

900

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

Electrical Protection

Supply reverse polarity No damage/no function

Electromagnetic compatibility CE Compliant

Environmental Conditions

Shock 100g / 11s

Vibration 10g RMS (20 - 2000Hz) Media Temperature -40°C to +125°C Ambient Temperature -20°C to +80°C Storage temperature -40°C to +125°C

Humidity 5% to 95% RH non-condensing

Thermal Effects

Compensated temperature range $$+20^{\circ}\text{C}$$ to $+80^{\circ}\text{C}$ Thermal Zero Shift (TZS) $$<\pm0.04\%$$ /FS/°C Thermal Span Shift \$<-0.015%\$ /°C

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

Cynergy3 Components Ltd. 7 Cobham Road, Ferndown Industrial Estate, Wimborne, Dorset, BH21 7PE, United Kingdom Telephone: +44 (0)1202 897969 Email: c3w_sales@sensata.com



cynergy3-ipsl-v3







IPSL series

Low Range Industrial Pressure Sensor

Pressure Ra	nges and Passive mV/	V Outputs					
Nominal Pres	sure, Gauge, mbar sure, Absolute mbar	50	100	250	500 500	750 750	1000 1000
Permissible (Overpressure mbar	2 bar	2 bar	2 bar	5 bar	5 bar	5 bar
Output Signals and Supply Voltages DIN 43650							
Wire system	Output	Supply Volts	(Connection	Pin	No.	
2-wire	4-20mA	9-32Vdc	-	+ve Supply	Pin	1	
			-	ve Supply	Pin	2	
			(Ground	Ear	th pin	
3-wire	0.5 - 4.5Vdc (non-ration	netric) 9-32 Vdc	-	+ve Supply	Pin	1	
			-	ve Supply	Pin	2	
			-	+ve Output	Pin	3	
			(Ground .	Ear	th Pin	

Part No	Pressure Range	Output
IPSL-G0050-5	0 - 50mbar G	4-20mA
IPSL-G0100-5	0 - 100mbar G	4-20mA
IPSL-G0250-5	0 - 250mbar G	4-20mA
IPSL-G0500-5	0 - 500mbar G	4-20mA
IPSL-G0750-5	0 - 750mbar G	4-20mA
IPSL-G1000-5	0 - 1000mbar G	4-20mA
IPSL-G0050-D	0 - 50mbar G	0.5 to 4.5V 3Wire
IPSL-G0100-D	0 - 100mbar G	0.5 to 4.5V 3Wire
IPSL-G0250-D	0 - 250mbar G	0.5 to 4.5V 3Wire
IPSL-G0500-D	0 - 500mbar G	0.5 to 4.5V 3Wire
IPSL-G0750-D	0 - 750mbar G	0.5 to 4.5V 3Wire
IPSL-G1000-D	0 - 1000mbar G	0.5 to 4.5V 3Wire
IPSL-A0500-5	0 - 500mbar Abs	4-20mA
IPSL-A0750-5	0 - 750mbar Abs	4-20mA
IPSL-A1000-5	0 - 1000mbar Abs	4-20mA



ISO9001certified on request) www.cynergy3.com

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Speakers & Transducers category:

Click to view products by Sensata manufacturer:

Other Similar products are found below:

FC-30814-P127 AS02832MR-2-R PB-1220PE PB-2015PQ 900-00001 AB2025B-LW50-R SWFK-31736-000 PT-2065FW PT-4175W AT-2830-TW-LW35-R ED-30761-000 CI-30120-A42 PB-0927PQ CTX323B220 SMS2020-08H4.5 LF BDT1717-08H6.5W56MLF FS5030DS0820-H11.8 GSPK1609035TN-7R0.8W-L100 GSPK1003PN-8R0.2W-L100 GSPK151103TN-8R0.2W GSPK2014035PN-8R0.5W-L100 AS03608MR-LW100-R 24520 SMT-0540-S-2-R SP570445-4 FS50MS0820-H9.7 FS4014-4-2W PBM4-13.B38R.A115.2663 9025 9021 1000 3011 HE-31751-000 3698 3708 3806 3808 3810 3812 3814 3816 4477 4532 4605 4613 4622 4634 4642 4645 4670