



# Datasheet ENGLISH Stock No.s: 8285690, 8285694, 8285701, 8285704, 8285707, 8285710, 8285713, 8285717, 8285723, 8285726, 8285729, 8285732, 8285735, 8285739, 8285748

### **IPSL Series - Low Range Industrial Pressure 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

Piezo-resistive sensor



The IPSL is suitable for use in a wide range of applications. The probe uses a piezoresistive 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 certificate.

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.

#### **Material Specifications**

Housing

"0" ring seals

Media wetted parts diaphragm **Miscellaneous** 

Diaphragm

303 Stainless Steel Viton 316L Stainless Steel Housing & connection, "O" ring seal,

Current consumption Weight Installation position 90° Operational Life Insulation resistance

Specifications are subject to change without prior notice

IPSL RS Pro 2016

2 -wire Limits at 28mA 3-wire Typical 6mA Approx 100g Any, small zero shift when tilted through

>  $100x 10^6$  cycles > 50MOhms at 50Vdc



#### Options available on the IPSL pressure transmitter.

Pressure range Pressure reference (G or Abs) Output type

#### Suitable applications

HVAC Pneumatics Rainwater harvesting Agricultural machinery Laboratory testing Mechanical engineering Environmental engineering Automotive testing Tank gauging IBC, IBC Tote or pallet tank

#### Performance

Accuracy (Non-Linearity & Hysteresis)<±0.25% / FS (BFSL) for gauge, <±0.5% for Absolute

Setting Errors (offsets)

Permissible Load

Influence Effects

3-wire 2-wire 3-wire Supply Load

2-wire

Zero & Full Scale,  $<\pm 0.5\%$  / FS Zero & Full Scale,  $<\pm 0.5\%$  / FS R<sub>max</sub> = [(Supply-9min)/0.02] $\Omega$ R<sub>min</sub> = 10k $\Omega$ <0.005% FS / 1V 0.05% FSO / k $\Omega$ 

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





## **IPSL Series - Low Range Industrial Pressure Sensor**

	<b>Ranges and Pas</b> ressure, Gauge,	sive mV/V Outp	outs 50	100	250	500	750	1000
	essure, dauge, essure, Absolut		50	100	230	500	750	1000
	e Overpressure		2 bar	2 bar	2 bar	5 bar	5 bar	5 bar
Output Sig	nals and Supply	y Voltages	DIN 43650					
Wire syster			Supply Volts		Connection	Pin		
2-wire 4-20mA			9-32Vdc		+ve Supply	Pin 1 Pin 2		
					-ve Supply Ground		z th pin	
					around	Edi		
3-wire 0.5 -	0.5 - 4.5Vdc	(non-ratiometric)	9-32 Vdc		+ve Supply	Pin		
					-ve Supply +ve Output	Pin Pin		
					Ground		th Pin	
			-		1			,
		RS Stock No	o. Part No.		Pressure Range	Output		
		8285707	IPSL-G005	0-5	0 - 50mbar G	4-20mA		
		8285710	IPSL-G010	0-5	0 - 100mbar G	4-20mA		
		8285717	IPSL-G025	0-5	0 - 250mbar G	4-20mA		
		8285729	IPSL-G050	0-5	0 - 500mbar G	4-20mA		
		8285732	IPSL-G075		0 - 750mbar G	4-20mA		
		8285739	IPSL-G100	0-5	0 - 1000mbar G	4-20mA		
		8285701	IPSL-G005	0-D	0 - 50mbar G	0.5 to 4.5	V 3Wire	
		8285713	IPSL-G010	0-D	0 - 100mbar G	0.5 to 4.5	V 3Wire	
		8285726	IPSL-G025	0-D	0 - 250mbar G	0.5 to 4.5	V 3Wire	
		8285723	IPSL-G050	0-D	0 - 500mbar G	0.5 to 4.5	V 3Wire	
		8285735	IPSL-G075	0-D	0 - 750mbar G	0.5 to 4.5	V 3Wire	
		8285748	IPSL-G100	0-D	0 - 1000mbar G	0.5 to 4.5	V 3Wire	
828569	8285690	IPSL-A050	0-5	0 - 500mbar Abs	4-20mA			
		8285694	IPSL-A075	0-5	0 - 750mbar Abs	4-20mA		
		8285704	IPSL-A100	0-5	0 - 1000mbar Abs	4-20mA		
		Lc	65 Rated arge DIN 46350 onnector 1p65					
Stainless Steel (other materials available on request)			ther ble		112 mn nominal			
		Ø 24.0		-	112 m			
			18.0 mm A/F Hex		-			
Specifications or	e subject to change wi	thaut prior patice	1/4" BSP Male (others availd on request)	able				Made in the U