



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_{max} = [(Supply-9min)/0.02] Ω R_{min} = 10k Ω <0.005% FS / 1V 0.05% FSO / k Ω

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

	Ranges and Pas 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