

### **FEATURES**

- Compact and rugged
- Output 4mA-20mA
- BSP 1/4
- Piezo-resistive thick film ceramic sensor

# RS PRO Pressure Sensor for Oil, Water, 50mbar Max Pressure Reading Current

RS Stock No.: 828-5707



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.



### **Product Description**

These IPSL-series Pressure Sensors, also known as pressure transmitters from our own RS PRO brand are suitable for wide range of industrial applications. These devices change pressure forces into electrical signals. They are used to measure the pressure of the specific quantity like air, water and gas by changing the pressure into electrical energy. The probe uses a piezo-resistive ceramic sensor, giving excellent media compatibility within a stainless-steel housing.

### **General Specifications**

Pressure Reading Type	Relative		
Sensor Type	Piezo-resistive sensor		
Pressure Reading Range	0Bar to 50mBar		
Accuracy	<±0.25 %		
Hysteresis	<±0.25 %		
Output Type	Current		
Media Measured	Oil, Water		
Process Connection	G1/4		
Overpressure Resistance	2bar		
Mounting Type	Threaded		
Calibration Availability	Yes		
Applications	Mechanical engineering, Environmental engineering, Automotive testing, Pneumatics, Agricultural machinery, Laboratory testing		

### **Electrical Specifications**

Supply Voltage	9V dc to 32V dc
Output Signal	2-wire 4mA-20mA
Maximum Current	28mA
Voltage Supply Influence	<0.005% / 1V
Electrical Connection	DIN 43650 Type A
Reverse voltage protection	Yes
Insulation	> 50Mohms at 50Vdc



# **Mechanical Specifications**

Housing Material	Stainless Steel
Type of Seal	"O" ring seal
Diaphragm Material	316L Stainless Steel
Dimensions	1/4" BSP Male, 18.0mm A/F Hex, Ø24.0, 112mn nominal
Weight	Approx.100g
Fatigue Life	> 100x10 <sup>6</sup> cycles

# **Operation Environment Specifications**

Operating Temperature Range	-20°C to 80°C
Storage Temperature Range	-40°C to 125°C
Compensated temperature range	20°C to 80°C
Shock	100g/11s
Vibration	10g (20Hz- 2000Hz)

# **Protection Category**

IP Rating	IP65

## **Approvals**

Compliance/Certifications	CE, RoHS





# IPSL Series - Low Range Industrial Pressure Sensor

Pressure Ra	inges and Passive mV/V Out	puts						
	ssure, Gauge, mbar ssure, 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 Signa Wire system 2-wire	als and Supply Voltages Output 4-20mA	DIN 43650 Supply Volts 9-32Vdc		Connection +ve Supply -ve Supply Ground	Pin Pin Pin Earl	1		
3-wire	0.5 - 4.5Vdc (non-ratiometric)	9-32 Vdc		+ve Supply -ve Supply +ve Output Ground	Pin Pin Pin Earl	2		

RS Stock No.	Pressure Range	Output		
8285707	0 - 50mbar G	4-20mA		
8285710	0 - 100mbar G	4-20mA		
8285717	0 - 250mbar G	4-20mA		
8285729	0 - 500mbar G	4-20mA		
8285732	0 - 750mbar G	4-20mA		
8285739	0 - 1000mbar G	4-20mA		
8285701	0 - 50mbar G	0.5 to 4.5V 3Wire		
8285713	0 - 100mbar G	0.5 to 4.5V 3Wire		
8285726	0 - 250mbar G	0.5 to 4.5V 3Wire		
8285723	0 - 500mbar G	0.5 to 4.5V 3Wire		
8285735	0 - 750mbar G	0.5 to 4.5V 3Wire		
8285748	0 - 1000mbar G	0.5 to 4.5V 3Wire		
8285690	0 - 500mbar Abs	4-20mA		
8285694	0 - 750mbar Abs	4-20mA		
8285704	0 - 1000mbar Abs	4-20mA		

