

FEATURES

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

RS PRO Pressure Sensor for Oil, Water, 500mbar Max Pressure Reading Current

RS Stock No.: 828-5729



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 500mBar		
Accuracy	<±0.25%		
Hysteresis	<±0.25%		
Output Type	Current		
Media Measured	Oil, Water		
Process Connection	G1/4		
Overpressure Resistance	5Bar		
Mounting Type	Threaded		
Calibration Availability	Yes		
Applications	Mechanical engineering, Environmental engineering, Automotive testing, Pneumatics, Agricultural machinery, Laboratory testing		

Electrical Specifications

Supply Voltage	9Vdc to 32Vdc		
Output Signal	2-wire 4mA to20mA		
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	>100x 10 ⁶ 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	ID65
ir Nating	1F 03

Approvals

Compliance/Certifications	CE, RoHS





IPSL Series - Low Range Industrial Pressure Sensor

Pressure	Ranges and Passive mV/V Out	puts					
Nominal P	ressure, Gauge, mbar ressure, Absolute mbar le Overpressure mbar	50 2 bar	100 2 bar	250 2 bar	500 500 5 bar	750 750 5 bar	1000 1000 5 bar
Output Signals and Supply Voltages Wire system Output 2-wire 4-20mA		DIN 43650 Supply Volts 9-32Vdc	Connection +ve Supply		Pin No. Pin 1 Pin 2		
2	0.5. 4.594-7	0.22.14-		-ve Supply Ground	Ear	th pin	
3-wire	0.5 - 4.5Vdc (non-ratiometric)	9-32 VGC		+ve Supply -ve Supply +ve Output Ground	Pin Pin Pin Ear	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	

