

FEATURES

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

RS PRO Pressure Sensor for Oil, Water, 0.25bar Max Pressure Reading Current

RS Stock No.: 828-5717



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 0.25Bar			
Accuracy	<±0.25%			
Hysteresis	<±0.25%			
Output Type	Current			
Media Measured	Oil, Water			
Process Connection	G1/4			
Overpressure Resistance	2bar			
Burst Pressure	24bar			
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	> 100x106cycles

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
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IPSL Series - Low Range Industrial Pressure Sensor

Pressure Ra	inges and Passive mV/V Out	puts					
Nominal Pres	ssure, Gauge, mbar	50	100	250	500	750	1000
Nominal Pres	ssure, Absolute mbar				500	750	1000
Permissible (Overpressure mbar	2 bar	2 bar	2 bar	5 bar	5 bar	5 bar
Output Signa	als and Supply Voltages	DIN 43650					
Wire system		Supply Volts	(Connection	Pin	No.	
2-wire	wire 4-20mA 9-32Vdc			+ve Supply		Pin 1	
			-ve Supply		Pin 2		
			(Ground	Ear	th pin	
3-wire 0.5 - 4.5Vdc (0.5 - 4.5Vdc (non-ratiometric)	c (non-ratiometric) 9-32 Vdc		+ve Supply	Pin	1	
				ve Supply	Pin	2	
				+ve Output	Pin	3	
			(Ground	Earl	th Pin	



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	

