

PS100 series ceramic pressure sensors

Features

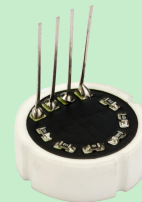
- Thermally compensated
- High accuracy and high stability
- Wide choice of measuring ranges
- Solid ceramic sensitive diaphragm
- Smart volume, easy for encapsulation
- Excellent shock and vibration resistance
- Excellent corrosion and abrasion resistance
- Low cost, extreme extensive application range



Descriptions

PS100 series ceramic pressure sensor is a dry-type ceramic piezoresistive pressure sensor made of the material ceramic Al_2O_3 96% by special technology, work following the piezoresistive principle, the Wheatstone bridge is screen printed directly on one side of the ceramic diaphragm and the diaphragms' opposite side can be exposed directly to the medium to be measured. Ceramic is a recognized material of high elasticity, corrosion and abrasion resistance, strong shock and vibrant resistance, no additional protection is normally required, and the thermal stability can make its operating temperature from -40 to 125°C.

PS100 series have the characteristic of small dimension, 18mm diameter, 6.35mm thickness, 2~400bar range, high performance-price ration, it has been widely used in various pressure-measuring occasion. Typical applications: process control, environment control, hydraulic pressure and pneumatic equipment, servo valve and drive, chemical products, chemical industry, medical instrument, and other fields.



Parameters

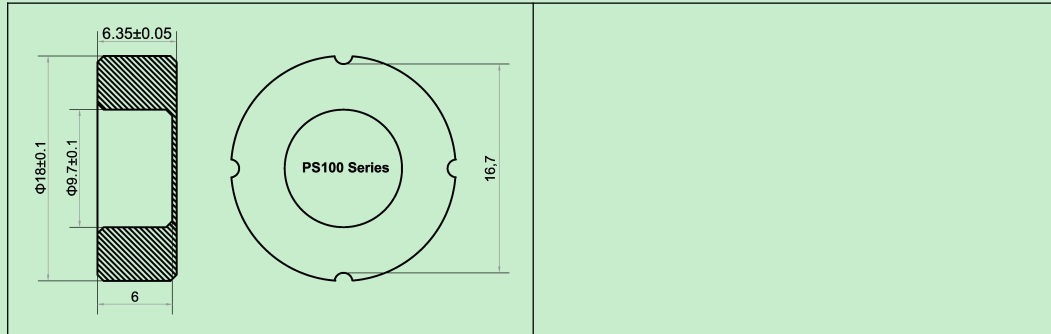
Power supply	3...30VDC
Zero output	0±0.2mV/V @25°C
Sensitivity	2.0~4.8mV/V
Combined accuracy	0.2%F.S. (Linearity, hysteresis, repeatability)
Pressure range	0...2Bar to 400Bar
Sensor type	Gauge
Temperature characteristic	±0.02%F.S./°C (25°C → 85°C)
Operating temperature	-40 → 125°C
Stability	<0.2%F.S.O./year
Material	Ceramic Al_2O_3 96%
Bridge resistance	11K±20%
Response time	<1mS
Insulation	>2KV
Weight	5g

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Typical pressure(Unit: bar)

Rated range	2	5	10	20	30	50	100	200	400
Over pressure	4	10	20	40	60	100	200	400	600
Burst pressure	7	15	35	70	90	150	250	450	600

Dimensions(Unit: mm)



Electrical connections

	Pins	Wires	Function
	V+	Red	Voltage +
	V-	Black	Voltage -
	S-	Yellow	Signal -
	S+	Blue	Signal +

Ordering information

EXAMPLE: [PS100 A 02](#)

1	Pressure range(bar)	A
	A(2) B(5) C(10) D(20) E(30) F(50) G(100) H(200) I(400)	
2	Electrical connection(2.54 mm pitch)	02
	01(4Pins*15mm) 02(4Wires*50mm) 03(Pad only)	

Contact us

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*Specifications subject to change without notice, the latest date sheet please contact: sales@sendo-sensor.com