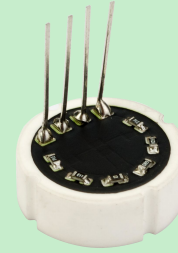


# PS100 series ceramic pressure sensors

- 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
- Thermally compensated, wide-range operating temperature



## 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  $125^{\circ}C$ .

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

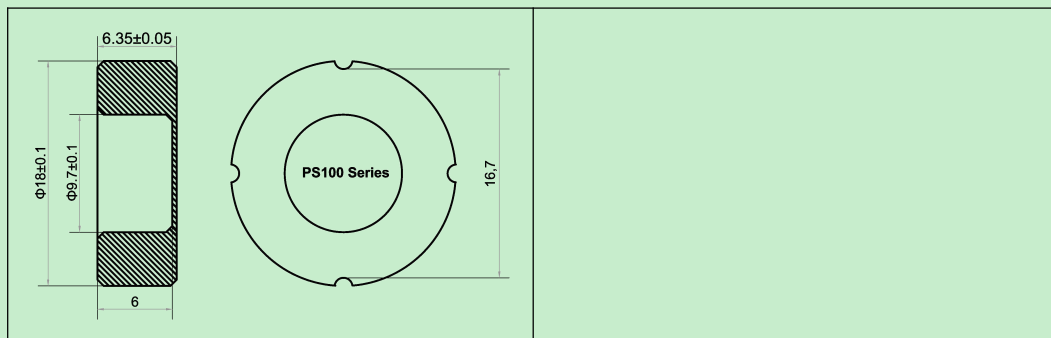
Sensor type	Gauge
Material	Ceramic $Al_2O_3$ 96%
Power supply	3~30VDC
Bridge resistance	11K $\pm$ 20%
Pressure range	0~2Bar...400Bar
Response time	<1mS
Combined accuracy	0.2%F.S. (Linearity, hysteresis, repeatability)
Zero output	0 $\pm$ 0.2mV/V @25 $^{\circ}C$
Sensitivity	2.0~4.8mV/V
Temperature characteristic	$\pm$ 0.02%F.S./ $^{\circ}C$ (25 $^{\circ}C$ ~85 $^{\circ}C$ )
Stability	<0.2%F.S.O./year
Operating temperature	-40~125 $^{\circ}C$
Insulation	>2KV
Dimension	18*6.35mm
Weight	5g

# PS100 series ceramic pressure sensors

## Typical pressure (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



## 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	<b>A</b>
	A(2bar) B(5bar) C(10bar) D(20bar) E(30bar) F(50bar) G(100bar) H(200bar) I(400bar)	
2	Electrical connection(2.54 mm pitch)	<b>02</b>
	01 4Pins(15mm) 02 4Wires(50mm)	

# PS100 series ceramic pressure sensors

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