

AJAY SENSORS & INSTRUMENTS

SS102 Series Piezoresistive Pressure Sensor Element

Application

- 1, Industrial process control
- 2, Liquid pressure system and switch
- 3, Level measure
- 4, Gas, liquid pressure measure
- 5, Pressure inspection meter
- 6, Pressure calibrator
- 7, Cooling equipment and air conditioner
- 8, Aviation and navigation inspection



Feature

- 1, High accuracy, High reliability.
- 2, Constant current power supply
- 3, Absolute, Sealing pressure is optional
- 4, Wider temperature compensation range
- 5, Isolated construction, Enable to test various media

Performance & Parameters

Power Supply	1.5 mADC
Span Output	~100mV
Zero Output	±2 mVDC
Accuracy	0.25%; 0.5%;
Measuring Range(Absolute)	-100KPa~0~35KPa...10MPa
Measuring Range(Gauge)	0~35KPa...2.5MPa
Overload	≤10MPa
Temperature Compensation	0~80°C
Operating Temperature	-40~125°C
Input Impedance	2.3 KΩ~4KΩ
Zero Thermal Error	±0.02%FS/°C
Span Thermal Error	±0.02%FS/°C

Construction

O-Ring	Viton
Diaphragm	Stainless steel
Housing	Stainless steel
Filling Liquid	Silicone oil
Electric connection①	Kovar pin
Electric connection②	100mm silicon rubber flexible wires
Diameter	Ø19mm
Height	11mm
Weight	~15g

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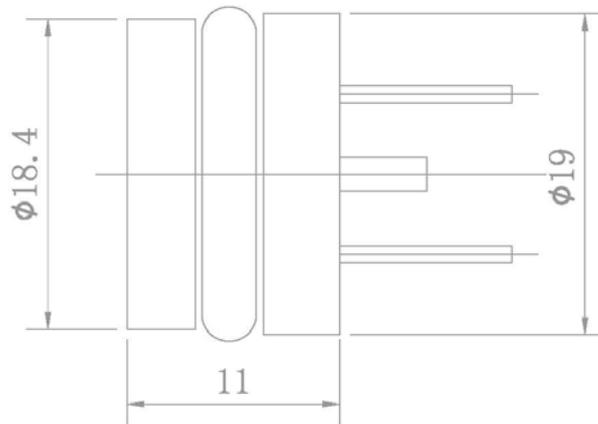
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Dimensions



Connections

Pin	Function	Color
1	Supply +	Red
2	Supply -	Black
3	Supply -	Black
4	Output +	White
5	Output -	Blue

Ordering Guide

Model	Pressure Range	Power Supply	Output Signal	Pressure Port	Electric Connection	Accuracy	Other
SS102		----	----	----			---
SS102	0~5Mpa				②	0.5%	

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