

SPT18 Ceramic Pressure Sensor

Introduction

Ceramic is known as anti-corrosive, crease resistant, good performance under shock/vibration.

The working temperature of ceramic can be $-40\sim 135^{\circ}\text{C}$, also has very good isolation performance.

SPT18 pressure sensor is using high quality ceramic material and thick film technology,

it has wide working temperature, good linearity, good stability, easy application,

and most importantly, it is very suitable for OEM application for its low cost.

Ceramic Sensor can be used in petroleum industry, automobile, industrial process control, air compressor, water control system, etc.



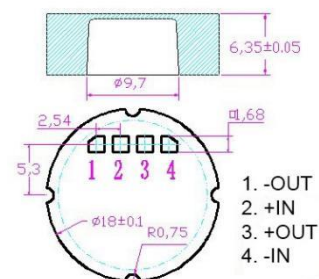
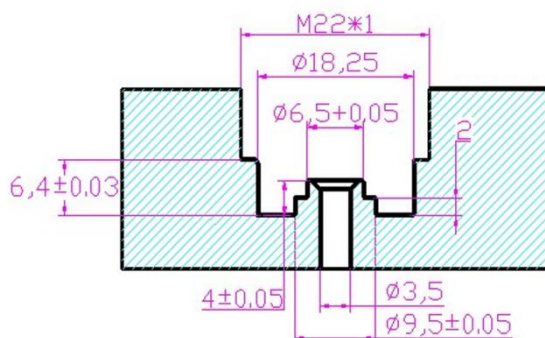
Specification

- Supply: $2.5\sim 30\text{VDC}$
- Working temperature: $-40^{\circ}\text{C}\sim 125^{\circ}\text{C}$
- Bridge resistance: $11\text{K}\Omega\pm 20\%$
- Offset output: $0\pm 0.2\text{mv/V}$ (23°C)
- Response time: $< 1\text{ms}$
- Sensitivity: $2.5\sim 3.0\text{mv/V}$
- Total accuracy(including non-linearity, repeatability, hysteresis) $< \pm 0.5\%\text{FS}$
- Offset thermal drift: $< \pm 0.02\%\text{FS/C}$

Connection options

- 4 soldering spots tined
- Silicon wires $1\text{mm}\times 40\text{mm}$
- Pins $0.55\times 0.27\times 9\text{mm}$
- Flexible PCB

Dimension & Connection



Order Guide

SPT18	Ceramic Pressure Sensor				
	Range code	Pressure range (Bar)	Over pressure	Burst Pressure	Ref.
	05	0 ~ 5	10	15	G
	10	0 ~ 10	20	30	G
	20	0 ~ 20	40	60	G
	30	0 ~ 30	60	90	G
	50	0~50	100	150	G
	100	0 ~ 100	200	300	G
	200	0 ~ 200	400	500	G
	400	0 ~ 400	500	600	G
		Code	Electric connection		
		1	Tined soldering spot *4		
		2	4-color 40mm flexible rubber wire		
		3	Pins *9mm		
		4	Flexible PCB		
SPT18	10	3	the whole spec		