BS12D Piezoresistive OEM Differential Pressure Sensor

Features

- Pressure range 0~35Mpa;
- Constant current power supply;
- 316L Stainless steel;
- Isolated construction to measure various media;
- Differential pressure sensor.

Application

·Industrial process control ·Differential pressure measure ·Gas, liquid pressure measurement
·Pressure calibrator ·Liquid pressure system and switch ·Ventura and eddy-current flow meter
·Refrigeration equipment and air conditioner

Introduction

BS12D piezoresistive differential pressure transducer is OEM pressure transducer applied in differential pressure measuring, typically of gases, vapor or liquids. Two high-sensitivity piezoresistive silicon pressure chips are employed inside the transducer. The stainless steel housing protects the chips against ambient influences. The measured differential pressure is transmitted onto the die through the diaphragm and filling silicon oil, finally it is converted into an electrical signal. Widely used for industrial process control and differential pressure measure fields, etc.

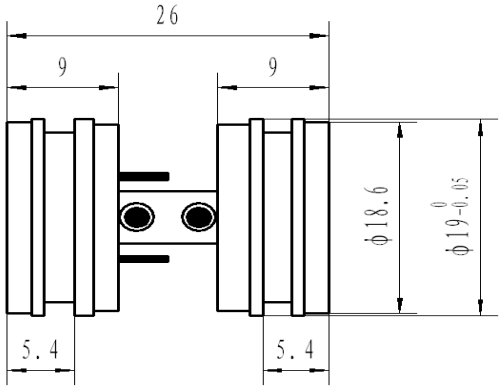
Specification

Pressure Range	0~350Bar
Overpressure	To see the “Order Guide”
Zero Output	±2mV
Span Output	100mV(typ.)/60mV(for 10kpa)
Accuracy	±0. 5% F.S.(Typical)
Long term stability	<0.2%F.S./year
Power supply	1.5mA(typ.)
Shock	20g (20--5000HZ)
Media Measuring	The gas or liquid which is compatible with construction material and Viton
Media temp.	（25±1）℃
Environment temp.	（25±1）℃
Working ambient temp.	(0~125)℃
Oil filling	Silicon oil(typ.)/(fluorin oil, olive oil available)
O-ring	Viton
Net weight	~36g

ADD: NO.2 Shenma Road,Maqun Science Park,Nanjing,Jiangsu Province,China.
TEL:（0086）025-85300032，FAX: （0086）025-85329493
E-mail: angela.zou@govagroup.com(M.T. 18951021368); senniehs@govagroup.com(M.T.18752007602)

Diaphragm	stainless steel 316L
Housing	stainless steel 316L
Wire	39*¢0.015,silicon shielded,200℃ bearing,4wire(typical)/5wire(available)

Outline Structure



Electric Connection

Pin	Connection
Red	IN+
Yellow	OUT+
Black	IN-
White	OUT-

Order Guide

BS12	Piezoresistive differential pressure transducer					
	Code	Pressure reference				
	D	Differential pressure				
		Code	Pressure range	Positive pressure		Negative pressure
		0.035	35kPa	70kpa		35kpa
		0.07	70kPa	150kpa		70kpa
		0.1	100kPa	200kpa		100kpa
		0.2	200kPa	400kpa		200kpa
		0.35	350kPa	700kpa		350kpa
		0.7	700kPa	1400kpa		700kpa
			Code	Excitation		
			C	1.5mA		
			V	others (please specify)		
				Code	Temperature compensated type	
				R	compensated by resistors	
					Code	Electric connection
					1	silicon rubber flexible wires
BS12	D	0.035	C	R	1	

ADD: NO.2 Shenma Road,Maqun Science Park,Nanjing,Jiangsu Province,China.
TEL:（0086）025-85300032，FAX: （0086）025-85329493
E-mail: angela.zou@govagroup.com(M.T. 18951021368); senniehs@govagroup.com(M.T.18752007602)

Notes

1. It is recommended that the sensor should be installed as Suspended Mode to avoid face tight press and avoid affecting sensor stability.

2. Please pay attention to protect the diaphragm to prevent any damage or bad performance.

3. Please notice that one side of the leading wire is High Pressure Side marked with ”+”, the other is Low Pressure Side marked with”-“.

4. During application, please pay attention that the pressure of high pressure side should be higher than that of low pressure side.

5. If the working temperature of Viton rubber exceeds the temperature of the rubber specification or be applied in critical environment, please contact us.

ADD: NO.2 Shenma Road,Maqun Science Park,Nanjing,Jiangsu Province,China.
TEL:（0086）025-85300032，FAX: （0086）025-85329493
E-mail: angela.zou@govagroup.com(M.T. 18951021368); senniehs@govagroup.com(M.T.18752007602)