

Oil filled piezo-resistive pressure sensing Element



Features

- Low cost OEM
- Range:0.4 to 70bar
- Wide temperature range
- Temperature compensated
- Standard mounting size
- Compatible with corrosive media

Application

- Process Automation & Control
- Fresh and waste water
- Pressure transmitters
- Medical instruments

Performance

Pressure range(FS)	0.4~70 bar
Nonlinearity(BFSL typical)	±0.1% FS
Nonlinearity(0.4bar only)	±0.2% FS
Stability(typical)	±0.1% FS/year
Repeatability	±0.05% FS
Pressure hysteresis	±0.05% FS
Load resistance	>5MΩ
Insulation resistance	>100MΩ

Current excitation

Excitation	0.5~2mA
FSO(@1.5mA, 25°C)	>70mV
Input impedance	2500±500Ω
Output impedance	3000±500Ω
Zero offset(@25°C)	±1.5mV

Voltage excitation

Excitation	10~14Vdc
FSO(@10Vdc, 25°C)	100±2mV
FSO(70 bar only)	150±3mV
Input impedance	8000±2000Ω
Output impedance	3000±500Ω
Zero offset(@25°C)	±2mV

Environmental

Operate temperature	-40 to 125°C
Compensated temperature	-10 to 70°C
Compensated temperature(0.4bar only)	0 to 50°C
Temperature zero shift	±1% FSO
Temperature sensitivity shift	±1% FS
Thermal hysteresis	±0.1% FS
Overload	>2 * FS
Overload(70 bar only)	>1.5 * FS
Media	#316L SS compatible
Housing	#316L SS
Pressure port	O-ring Seal
Electrical connection	Ribbon Cable or Connect Pins

Ordering Information

P3401A-10BA-R

Connect type:
R= 90mm Ribbon cable
C= Connect pins

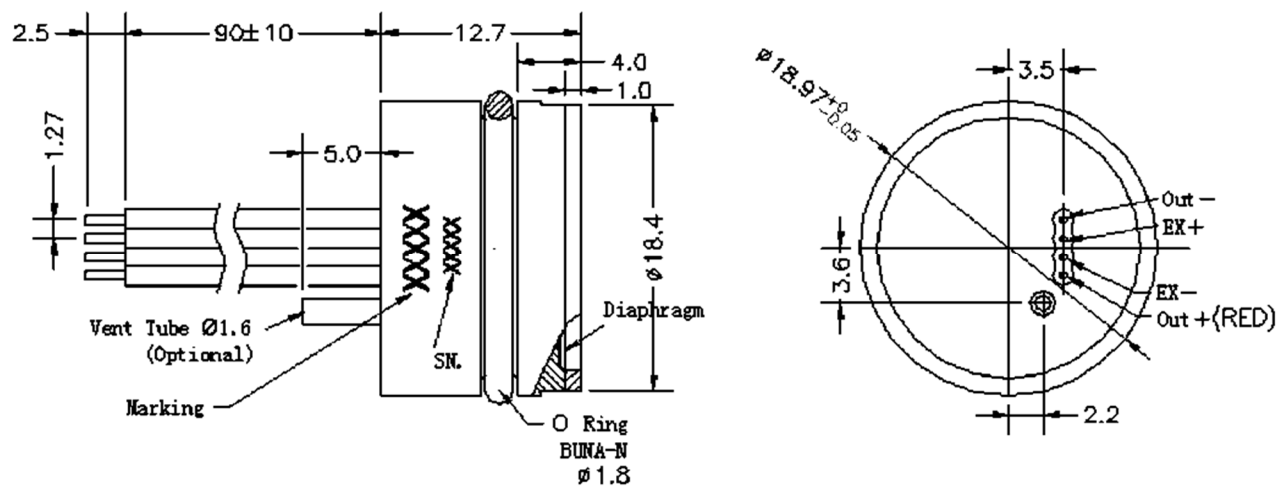
Reference type:
A= Absolute(not for <1bar range)
G= Gauge pressure
T= Gauge pressure with vent Tube
S= Sealed gage

Range(0.4/1/1.6/4/6/10/16/25/40/70 in bar)

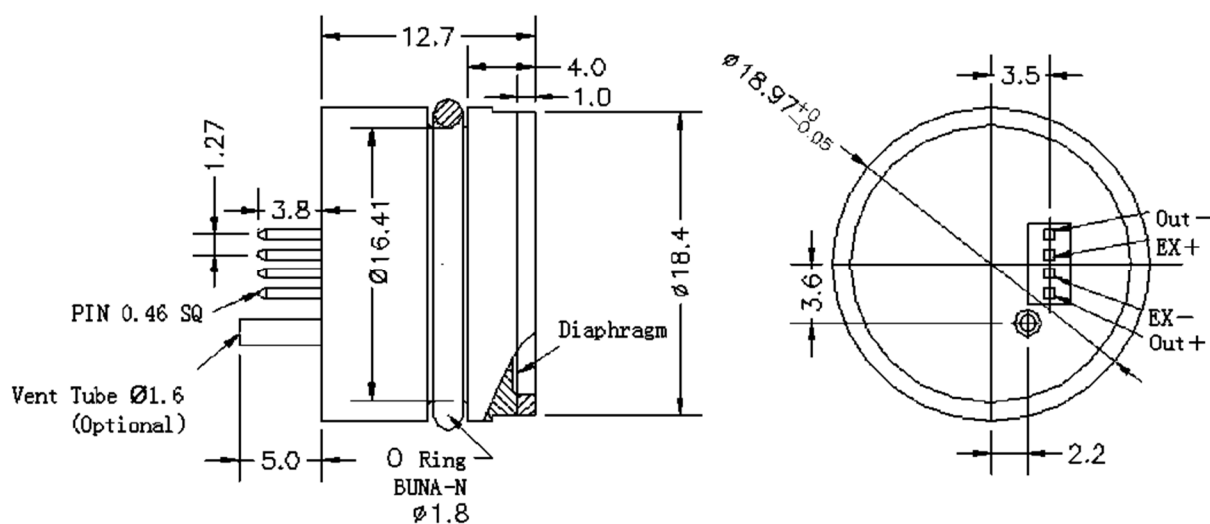
Excitation type:
A= Current excitation
Blank= Voltage excitation

Dimensions(mm):

Ribbon Cable:



Connect Pins:



Remark: Ribbon Cable or Connect Pins are optional for all models.
Maximum temperature range for standard cable is -20°C to $+105^{\circ}\text{C}$.