

B472 Pressure Sensor



The **B472 Pressure Sensor** is a high-stability, versatile stainless steel sensor that can be used with a pressure fitting or welded directly into another pressure system component such as a valve or manifold. Pressure ranges from 6 bar to 1,000 bar (100 to 15,000 psi) and temperatures ranges from -40°C to 140°C. Material options include Hastelloy®, 500 Vac insulation resistance, RTD, as well as various specifications on TC Zero and TC Span. A 5,000 Ω Wheatstone bridge and thin film strain gauge provides extremely low power consumption as well as unmatched long term stability.

Product Specifications:

Ranges:	6, 10, 16, 25, 40, 60, 100, 160, 250, 400, 600, 1000 bar
Maximum Load (Safe):	Up to 200% FSO (Range dependent)
Bridge Configuration:	4/5-Wire Full Bridge
Bridge Resistance:	5,000 Ω Nominal
Excitation Voltage:	10 V dc/ac (20 V max)
Insulation Resistance:	1G Ω @ 50 V dc
Full Scale Output (FSO):	1.6 mV/V nominal
Zero Balance:	± 0.03 mV/V
Repeatability:	$\pm 0.05\%$ FSO
Hysteresis:	$\pm 0.10\%$ FSO
Temperature Effect on Zero:	$\pm 0.6\mu$ V/V/°C (Tighter tolerances available)
Temperature Effect on Span:	$\pm 0.025\% \pm 0.01\%$ Reading/ °C (Tighter tolerances available)
Operating Temperature:	-40°C to +140°C
Body Material:	15-5PH Stainless Steel (Other materials optional)
Cable:	Customer Specific
Linearity (Range Dependant)	
6-16 bar:	$\pm 0.20\%$ FSO
25-100 bar:	$\pm 0.10\%$ FSO
100 bar or greater:	$\pm 0.50\%$ FSO

Features:

- Low Profile
- Low Power Consumption
- Thin-Film Strain Gauge
- Long Term Stability
- Low Hysteresis

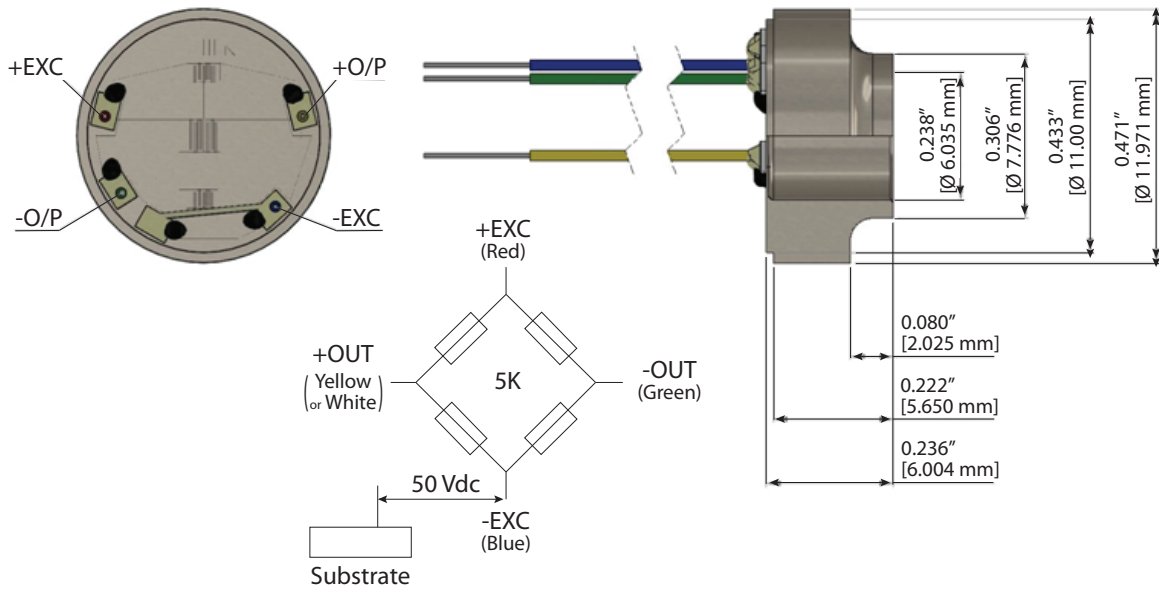
Applications:

- Pressure Transducers
- Pressure Calibrators
- Hydraulics
- Down-Hole
- Aerospace

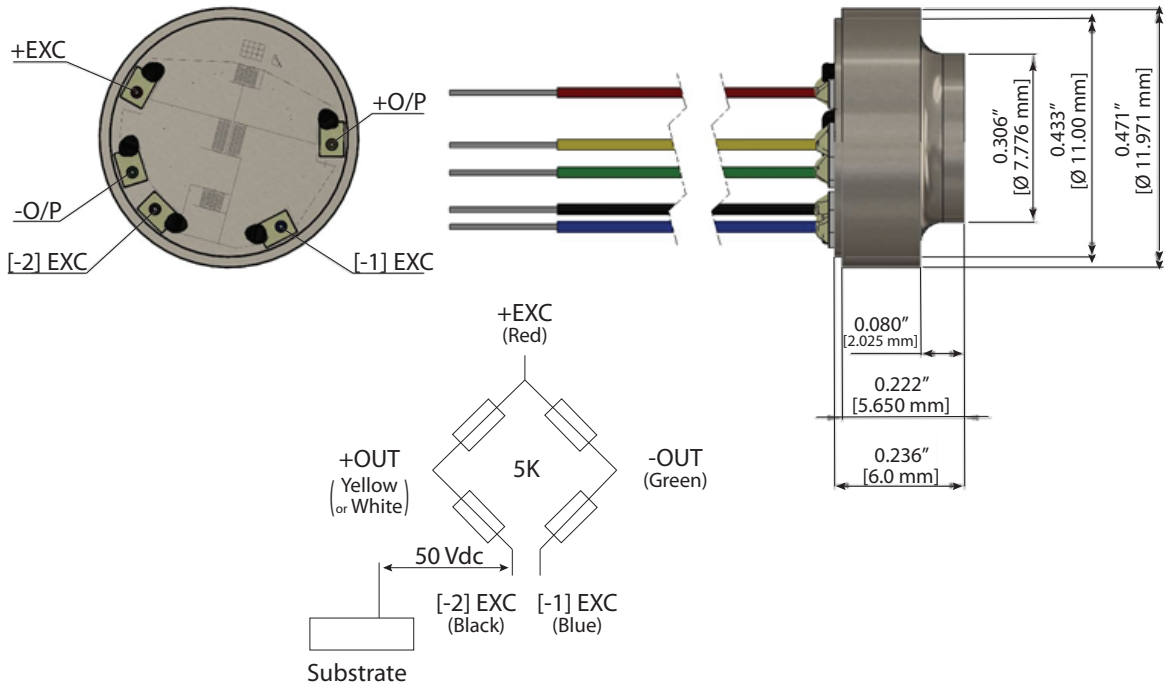


STRAIN MEASUREMENT DEVICES

4-Wire Configuration



5-Wire Configuration



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B472 Welded Interface

