

Multi-Component Sensors

11048 Series

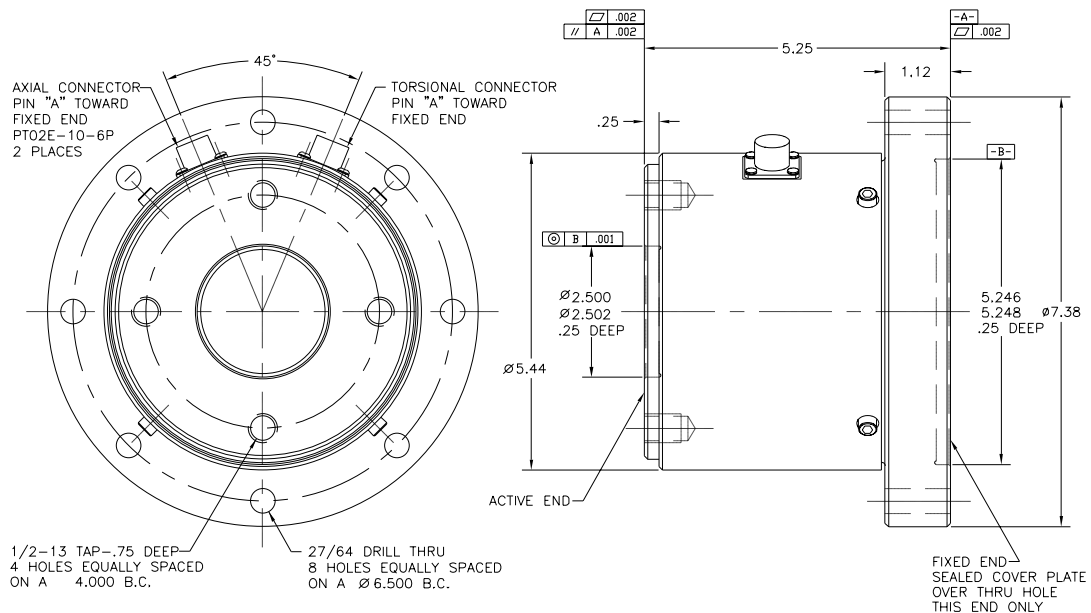
TORQUE/THRUST SENSOR

This popular design is a two component transducer used to measure both torque (Mz) and thrust (Fz) simultaneously and provide two separate outputs. The sensor can be cross talk compensated which eliminates off-axis loading effects. The rugged construction and element design of this transducer allow it to withstand significant extraneous loads (see extraneous load equations). Various capacities and physical sizes are available. Consult our application engineers.



SPECIFICATIONS

Capacities 500 in.-lbs. (Mz) / 500 lbs (Fz)
2500 in.-lbs (Mz) / 5000 lbs (Fz)
Overload capacity..... 150% F.S. both axes
Output at full scale load..... 2.0 mV/V nominal
Non-linearity..... 0.10% of F.S.
Hysteresis..... 0.10% of F.S.
Zero balance..... +/-1% of F.S.
Compensated temperature..... 70 to 170°F
Useable temperature..... -65 to +250°F
Temperature effect on zero..... 0.002% of F.S./°F
Temperature effect on span..... 0.002% of Rdg./°F
Bridge resistance..... 700/350 Ohms
Excitation voltage, maximum..... 20 Vdc
Material..... Alloy steel



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