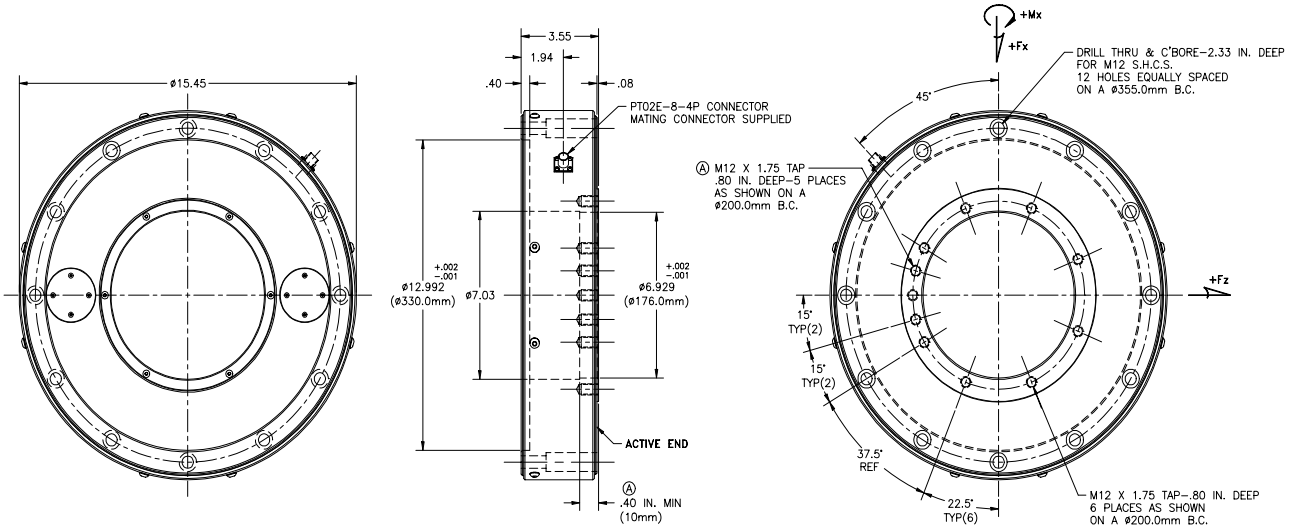
40003

TIRE TEST SENSOR

This unique sensor was designed to measure very low rolling resistance forces on a tire test machine, while measuring high normal force and steering angle moment at the same time. It is a single piece sensing element, gaged for Fx, Fz, and Mx. The sensor can be cross talk compensated which eliminates off-axis loading effects as well as be designed for other capacities and physical sizes. Consult our application engineers with your specific requirements.

SPECIFICATIONS

Capacity..... 500lbs(Fx) / 5,500lbs(Fz) / 102,000in-lbs(Mx)
Overload capacity..... 150% F.S. both axes
Output at full scale load..... 1.0 mV/V nominal
Non-linearity..... 0.50% of F.S.
Hysteresis..... 0.50% 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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