

Wheel Torque Transducer

Model TW9.5

- 4,000 lbf · ft (5.4 kN · m) capacity
- Adapts to 10 in and larger wheels
- Environmentally protected
- Consistent sensitivity among all units
- Configured to minimize magnetic sensitivity



Description

Ideal for measuring wheel torque on ATVs, utility vehicles, turf-care equipment, and other lightweight vehicles, the *TW9.5 Wheel Torque Transducer* provides one channel of torque data and is completely weatherproof.

It is designed to attach to adapters that duplicate the critical dimensions of the original rim and place the tire onto the production centerline. The hub adapter fastens to the interior bolt circle of the torque transducer and the rim adapter fastens to the outer bolt circle. The versatility of this system allows the torque transducer to be used with various wheel designs.

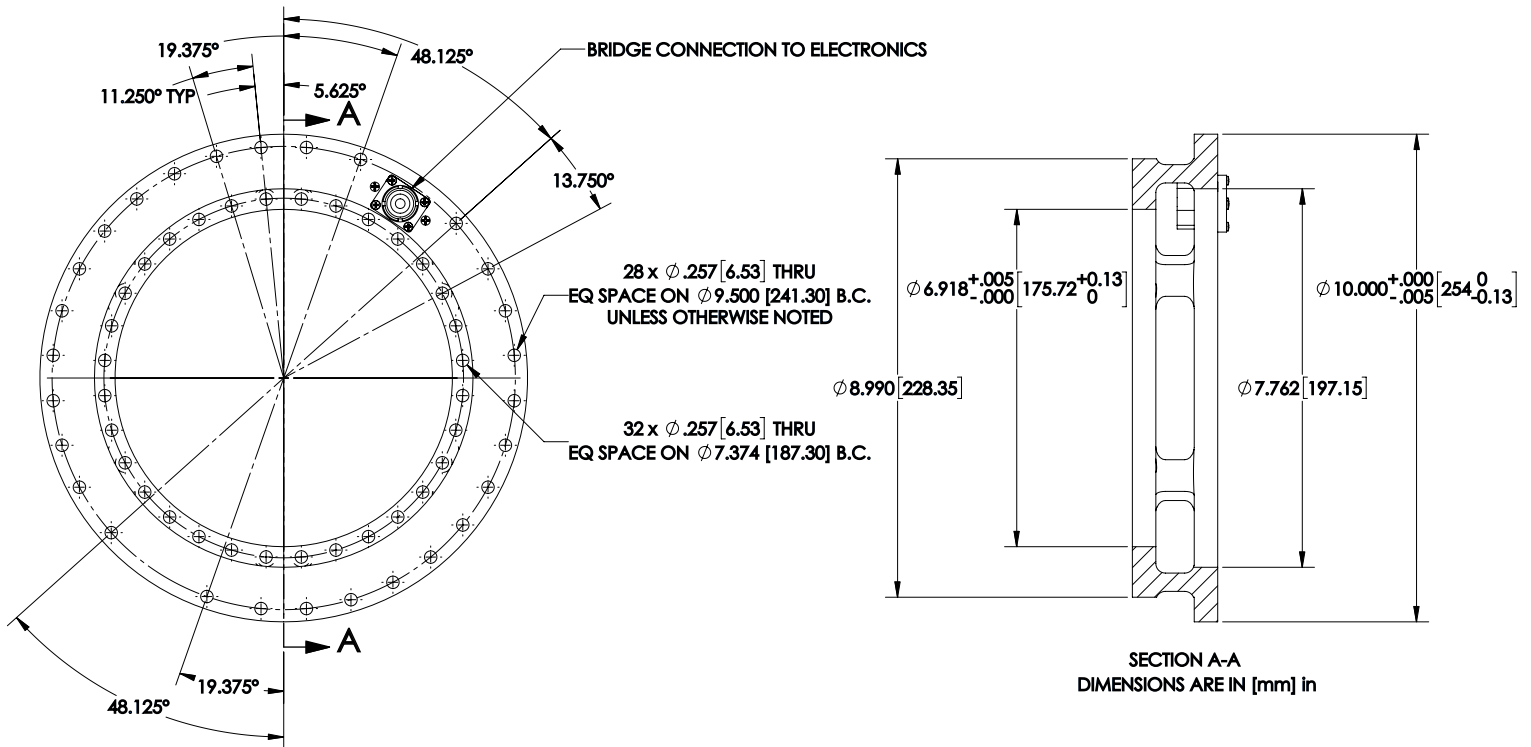
Weatherproof sealing provides excellent resistance to environmental conditions, and temperature compensation of the transducer ensures stable output throughout a wide temperature range. In addition, all wires are precisely located to reduce sensitivity to magnetic effects.

Specifications

Full Scale Measurable Load	4,000 lbf · ft (5.4 kN · m)
Maximum Torque Capacity	4,000 lbf · ft (5.4 kN · m)
Maximum Static Weight (Fz)	1,000 lb (455 kg)
Rim Size	≥ 10 in
Sensor	4 arm strain gauge bridge
Nonlinearity	≤ 0.1 % of full scale output
Hysteresis	0.05 % of full scale output
Temperature Range, Operating	-40 °F to 257 °F (-40 °C to 125 °C)
Excitation Voltage, Maximum	10 Vdc or Vac rms
IP Rating	IP67

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TW9.5 Configuration



Ordering Options

Michigan Scientific offers a fully weatherproof slip ring, encoder, and amplifier instrumentation assembly to be used with all *Wheel Torque Transducers*. Refer to the Instrumentation Assemblies section for more information.

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