

Wheel Torque Transducer

Model TW-2T-12.5K

- 12,500 lbf · ft (17.0 kN · m) capacity
- Adapts to 16 in and larger single or dual wheels
- Environmentally protected
- Rugged stainless steel construction
- Consistent sensitivity among all units
- Configured to minimize magnetic sensitivity



Description

The *TW-2T-12.5K Wheel Torque Transducer* is suitable for medium and heavy-duty trucks, vans and SUVs. One transducer will measure the combined torque load for a dual-wheel set or a single tire. It mounts onto the vehicle using custom designed adapters, which duplicate the critical dimensions of the production wheel and place the tires on the production centerline. Being rugged and waterproof, they are capable of on-road and off-road measurements in all conditions.

The *TW-2T-12.5K* measures all torque developed between the tire patch and the vehicle hub and can be used for drivetrain development to study efficiency, optimize component design, and monitor torque distribution in all-wheel-drive vehicles. It is also ideal for brake system component development, as well as anti-lock brake development, traction control, and vehicle stability system design. Measured data can be used for component development, computer modeling and laboratory simulation and validation.

Specifications

Full Scale Measurable Load	12,500 lbf · ft (17 kN · m)
Max. Torque Capacity	12,500 lbf · ft (17 kN · m)
Maximum Static Weight (Fz)	4,000 lb (1,800 kg)
Rim Size	≥ 16 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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Rev. A

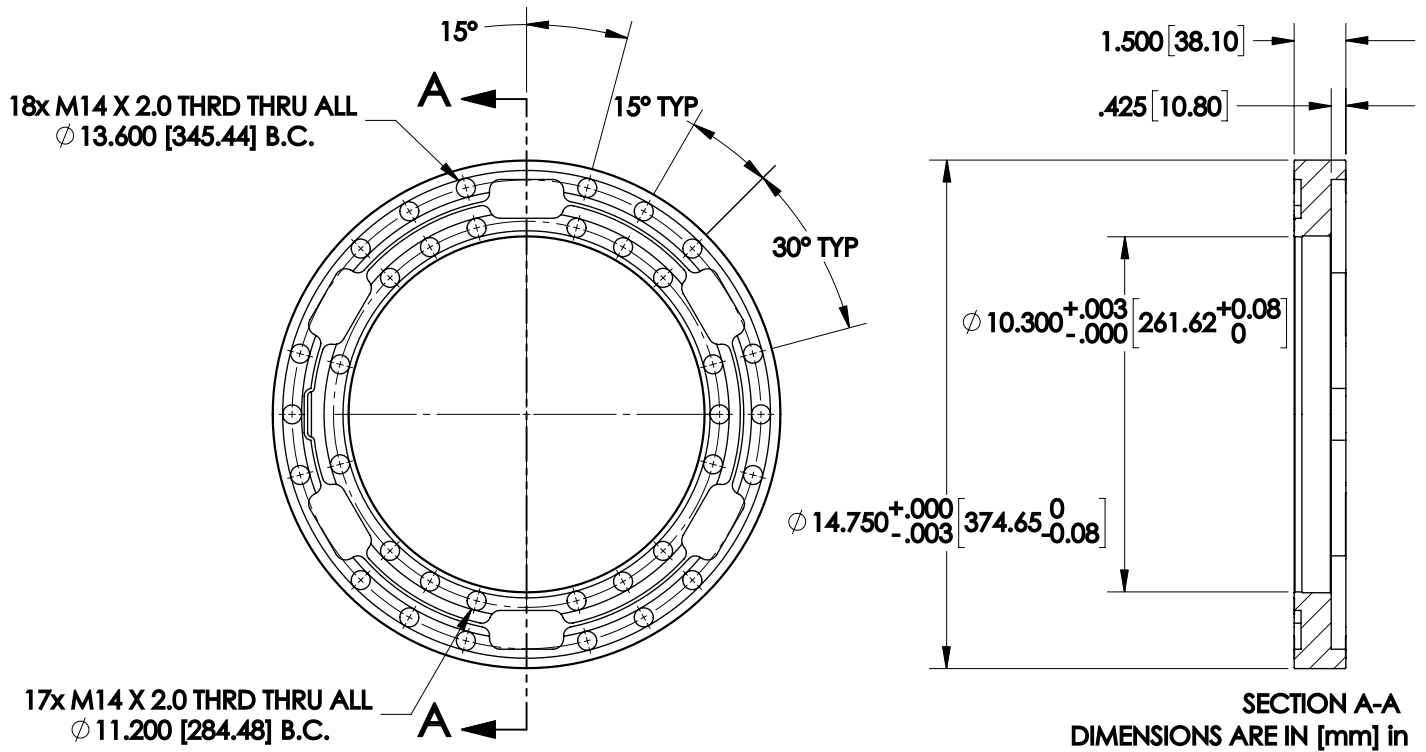
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Wheel Torque Transducer

TW-2T-12.5K 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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