

- 4000 lb-ft and 6000 lb-ft capacities
- · Adapts to 14" and larger wheels
- · Environmentally protected
- Temperature compensated
- Rugged stainless steel construction
- Enhanced resolution model available
- Configured to minimize magnetic sensitivity



Description

Michigan Scientific's *TW12.8* and *TW12.8ER* Wheel Torque Transducers are ideal for measuring wheel torque on both passenger cars and light duty trucks. Designed to attach to adapters that simulate production wheel rims, this model provides one channel of torque data and is completely weatherproof. The adapter system is fabricated by generating a profile of the original wheel rim and designing a hub and rim adapter, which fasten to the interior and exterior bolt circle respectively, and duplicate the critical dimensions of the original rim. The versatility of this system enables the torque transducers to be used with a variety of wheel rim designs.

Both the torque and combined steer/camber moment load ratings of the *TW12.8 transducer* are 6000 lb-ft. A model with enhanced resolution is also available. The *TW12.8ER* has torque and combined steer/camber moment load ratings of 4000 lb-ft. The geometric configuration of these two models are identical, enabling them to be used with the same adapters.

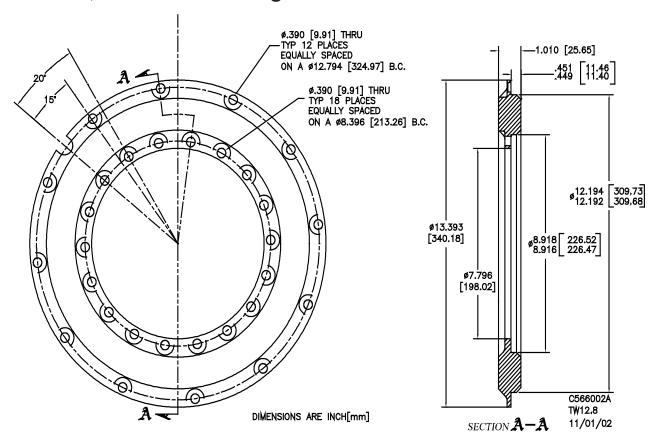
High grade stainless steel material and weatherproof sealing combine to provide excellent resistance to corrosion and environmental conditions. Temperature compensation of the torque transducer ensures stable output throughout a wide temperature range; all wires are precisely located to reduce sensitivity to magnetic effects.

Specifications

TW12.8	TW12.8ER
6,000 lb-ft (8.1 kN-m)	4,000 lb-ft (5.4 kN-m)
6,000 lb-ft (8.1 kN-m)	4,000 lb-ft (5.4 kN-m)
1.5 mV/V nominal	1.5 mV/V nominal
4 arm strain-gage bridge	
≤ 0.1% of full scale output	
0.05% of full scale output	
525 $Ω$ nominal	
75°F to 250°F (24°C to 121°C)	
0.0008% full scale/ °F (0.0015% full scale/ °C)	
-40°F to 350°F (-40°C to 177°C)	
-40°F to 300°F (-40°C to 149°C)	
10V DC or AC rms	
Exceeds 5000 MΩ	
Bendix PTY02E-8-4P	
Bendix PT06E-8-4S (SR)	
	6,000 lb-ft (8.1 kN-m) 6,000 lb-ft (8.1 kN-m) 1.5 mV/V nominal 4 arm strain-gage bridge ≤ 0.1% of full scale output 0.05% of full scale output 525 Ω nominal 75°F to 250°F (24°C to 121°C 0.0008% full scale/ °F (0.001 -40°F to 350°F (-40°C to 177 -40°F to 300°F (-40°C to 149 10V DC or AC rms Exceeds 5000 MΩ Bendix PTY02E-8-4P



TW12.8, TW12.8ER Configuration



Ordering Options

Special units are available for high temperature applications.

Custom designs with alternative output sensitivities and load capacities may also be ordered.

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