



- 2.25" long sensor body - 6.2" overall
- Weighs 7 lbs.
- On-board shunt calibration circuit
- Angle encoder (optional)
- SAE 4340 alloy steel - satin nickel finish

The T211 was originally designed to provide feedback information for control of textile machinery. It features a rotary transformer coupled torque sensor and requires AC strain gage signal conditioning such as SensorData's i200. The optional angle encoder provides precise feedback of shaft position and rotational speed. SensorData's T211 Sprocket/Pulley Torque Sensor can be provided in a number of different configurations with capacities from 500 to 10K lb-in and rated speeds up to 10,000 rpm. Contact our representative or the factory to discuss your specific requirements. After consultation with a factory representative SensorData will be pleased to provide the customer with a practical solution for his or her special needs for a sprocket/pulley torque sensor.

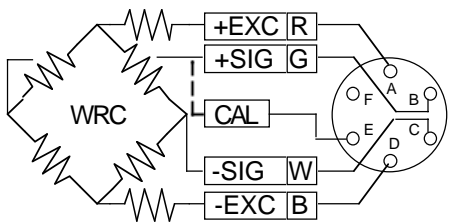
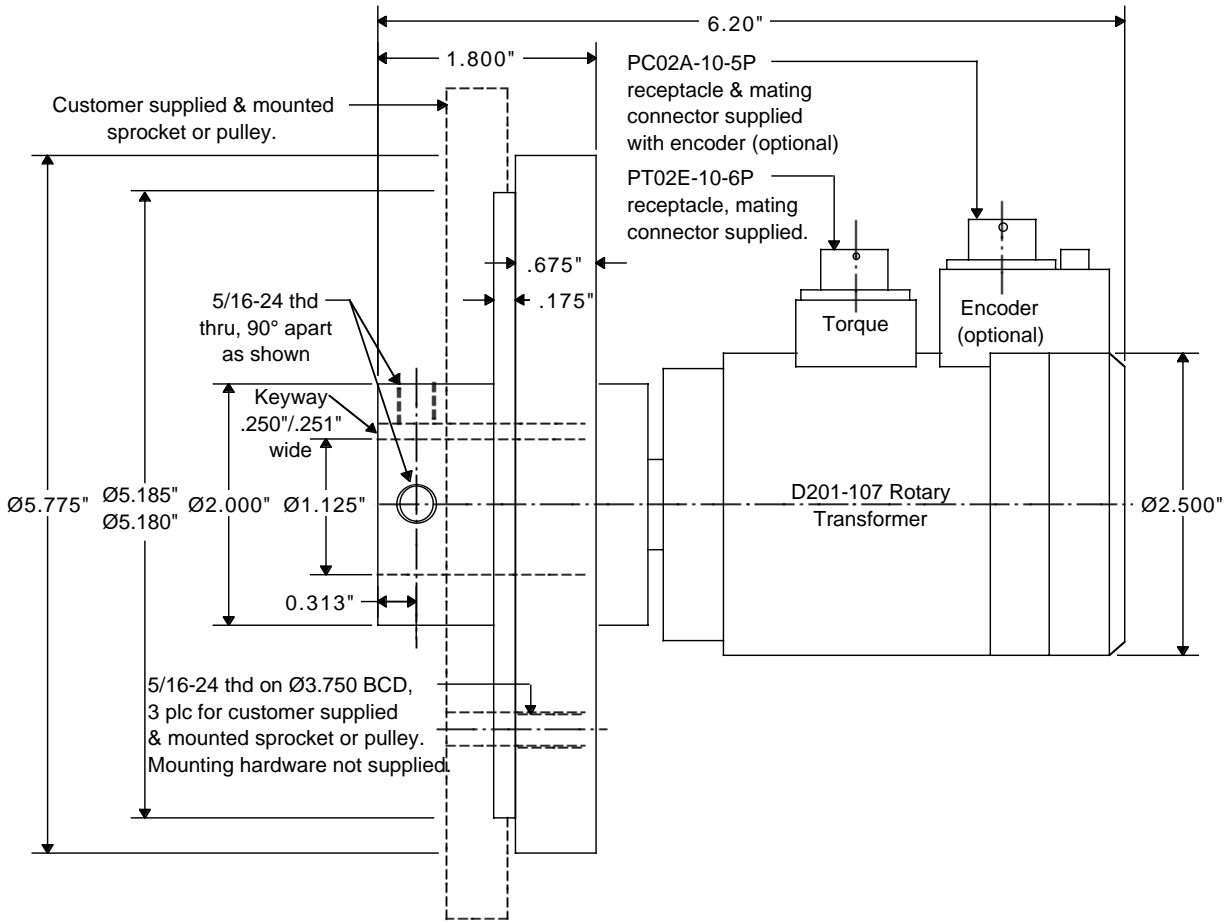
## Specifications

(Subject to change without notice)

Rated Capacity	500, 1K, 2K lb-in
Rated Speed	8,000 rpm
Nonlinearity	0.1% of rated output
Hysteresis	0.1% of rated output
Nonrepeatability	0.05% of rated output
Rated Output, typical	2 mV/V
Zero Balance	+/-1% of rated output
Temperature Range, operating	-20 to +220 F
Temperature Range, compensated	+68 to +220 F
Temperature Effect on Output	0.002% of load/F
Temperature Effect on Zero	0.002% of rated output/F
Excitation	2.8 to 5 VAC rms, 3 kHz to 5 kHz
Insulation Resistance, bridge to case	>5000 megohms at 50 VDC
Maximum Load, safe <sup>(1)</sup>	200% of rated capacity
Maximum Load, ultimate <sup>(2)</sup>	400% of rated capacity
Number of Bridges	1
Weight	7 lbs
Construction	SAE 4340 alloy steel with satin nickel finish

<sup>(1)</sup> With load centered, maximum torque that can be applied without producing a permanent shift in performance characteristics.

<sup>(2)</sup> With load centered, maximum torque that can be applied without physical damage.



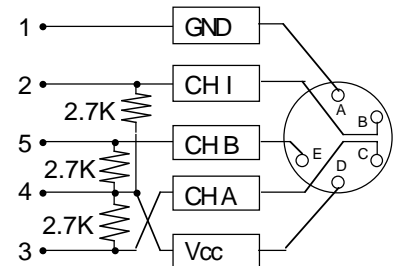
PT02E-10-6P w/cal circuit

	Typ	Max	
V <sub>cc</sub>	5.0	7.0	VDC
I <sub>cc</sub>	57	85	mA

Chan	A	B	I
Count/Rev	1K	1K	1K

Each chan will drive 1 TTL load

Encoder specifications



PC02A-10-5P w/ encoder (optional)

**ORDERING INFORMATION**

- T211-Standard-Capacity Standard; includes D201 transformer, receptacle and mating connector. Customer supplies sprocket or pulley.
- T211-107-Capacity Same as standard and with optional external angle encoder, receptacle and mating connector.
- Cable Assembly Optional; 10 ft., color coded, shld., mating connector sensor end, customer specified connector instrument end.
- Cable Assembly Optional; 10 ft., color coded, shld., mating connector sensor end, leads stripped and tinned instrument end.
- Cable Assembly Optional; 10 ft cable, mating connector encoder end, customer specified connector instrument end.
- Cable Assembly Optional; 10 ft cable, mating connector encoder end, leads stripped and tinned instrument end.

**IMPORTANT NOTICE**

Dimensions above are in inches unless otherwise noted. Manufacturer not responsible for any modification to product, fixtures, or accessories made by user or third party. User should request certified drawings before designing mountings or fixtures. Manufacturer reserves right to modify or change design, dimensions, specifications, and features of this product without prior written notice. Changes to NOTICE must be in writing and accepted by manufacturer.

**SensorData Technologies, Inc.**

**Presented By :**  
**A-Tech Instruments Ltd.**  
Phone 416 754 7008 Fax 416 754 2351  
Email: sales@a-tech.ca