



RWT SERIES MOTORCYCLE REAR WHEEL TORQUE TRANSDUCER

For the first time a cost-effective and accurate rear wheel power and torque measurement device is now available.

Designed to be a self-contained sensor unit, the rear wheel torque transducer is a direct replacement for the rear wheel sprocket carrier.

The innovative design allows torque to be measured at the rear wheel enabling race teams to increase their knowledge and develop their motorcycles in a way that was not previously available.

FEATURES

- Torque transducer is incorporated into a standard sprocket carrier creating a self-contained sensor unit.
- All electric components are hermetically sealed.
- Design can be adapted to suit different wheels—Marchesini / OZ / Dymag / BST, designs are available.
- Wireless output signal to chassis mounted receiver unit.
- External charging port allow the internal batteries to be conveniently recharged.
- Design of torque transducer and receiver unit can be adapted to suit customers requirements.

BENEFITS

- Rear wheel torque and power measurement in real time.
- Use for engine development — assess where power is used thus allowing engine development strategies to be focused on Bike Dyno.
- Use for gear ratio selection — assess if ratios are providing optimum power at rear wheel.
- Use for rider knowledge—assess how rider applies power.
- Adaptable design and easy to fit—direct replacement for standard rear wheel sprocket carrier.

ADDITIONAL INFORMATION

Please refer to our website for a Case Study and an Engineering Document providing more detailed information on this product. These can be downloaded at www.kasensors.com/RWT

PMC/KA Sensors adopts a continuous development program which sometimes necessitates specification changes without notice

PRESSURE | TEMPERATURE | FORCE | TORQUE | POSITION | SPEED | ACCELERATION | GYRO

Sensors For Motorsport

Features

- Self Contained
- Lightweight
- 0.5V to 4.5V Output
- Speeds up to 230 mph
- $\pm 1000\text{Nm}$

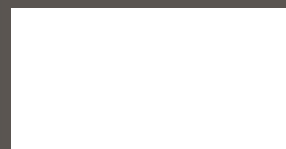
Applications

- Race or Road Bike
- Drag Racing
- Engine Testing

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www.kasensors.com

Represented by:



PART NUMBER CONFIGURATOR

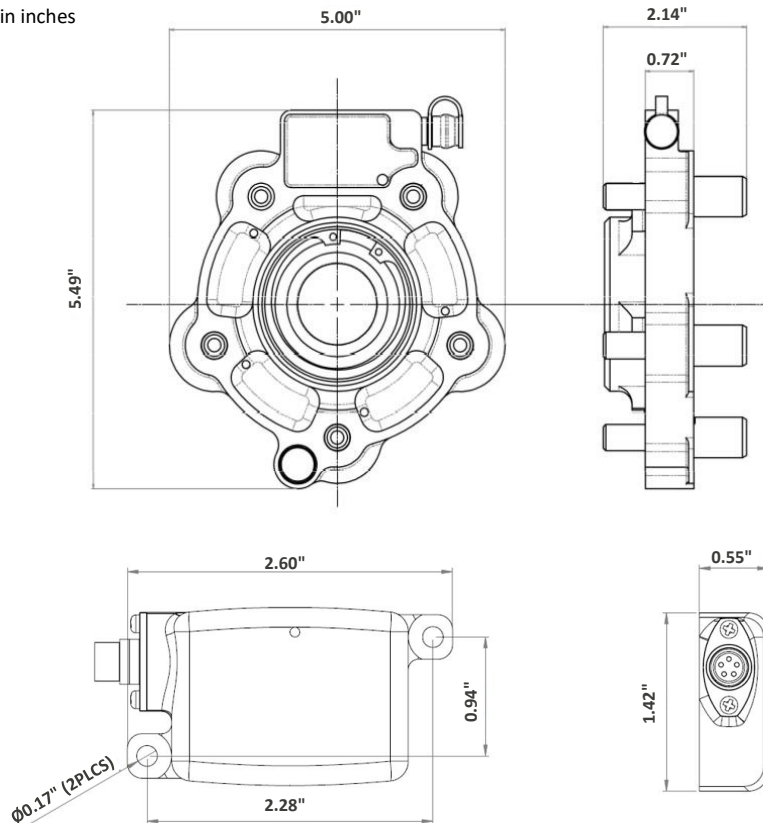
Ordering Information: Since this product is custom there is no standard configuration. Please contact KA Sensors to discuss your application and develop a configuration.

TECHNICAL SPECIFICATIONS

| | |
|-----------------------|--|
| Housing Material | Aluminum |
| Drive Pin Material | 17-4PH Stainless Steel, or Ti6AL4V Titanium |
| Water Resistance | Hermetically Sealed Electronics |
| Torque Range | ±100 to 1000NM <i>Contact Factory for Higher Torque</i> |
| Supply Voltage | 5-16V, 35mA |
| Output Voltage | 0.5 to 4.5V |
| Accuracy | ±2% Typical |
| Output Frequency | 750Hz |
| Operating Hours | 10 Hours before Recharge |
| Operating Temperature | 32°F to 155°F (0 to +70°C) |

MECHANICAL DETAILS

Dimensions in inches



*Sense
Analyze
Control*

Sensors For:

- Temperature
- Acceleration
- Pressure
- Position
- Torque
- Speed
- Angle
- Force

Services For:

- Data Logging
- Telemetry
- Controls
- Wiring

Contact Us

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