



# Wabash GTSS

## Generic Threaded Speed Sensor

Developed for rugged, harsh speed sensing requirements where durability and dependability are required.

The Wabash Generic Threaded Speed Sensor (GTSS) is built for use in the agricultural, heavy vehicle, off-highway, and construction markets. Its proven, field-tested design conforms to SAE standards, while offering customers flexibility in variations and features. The GTSS is ideal for applications such as:

- Engine speed
- Transmission speed
- PTO speed
- Input/output shaft speed
- Implement speed

The GTSS is available in a wide variety of packages, including single or dual outputs, and has passed extreme DV testing requirements.

Wabash generic sensors offer customers low cost options with minimal or little tooling investment.

Count on Wabash Technologies for sensing solutions that add performance and value to products. We serve customers with advanced design and engineering capabilities, flawless quality performance, flexible manufacturing and on-time delivery.



To learn more about how our products can help you, contact us at 260-355-4100 or visit [www.wabashtech.com](http://www.wabashtech.com)



Committed to sensor advancement.





# Wabash GTSS

## Generic Threaded Speed Sensor

### Technical Specifications

#### PHYSICAL

- Ideal for transmission speed sensor applications
- Robust product (aluminum housing)
- Single or dual output
- Multiple electrical packages

#### ELECTRICAL

All measurements made at free ambient air at 25° ± 5° (77° ± 9 °F)

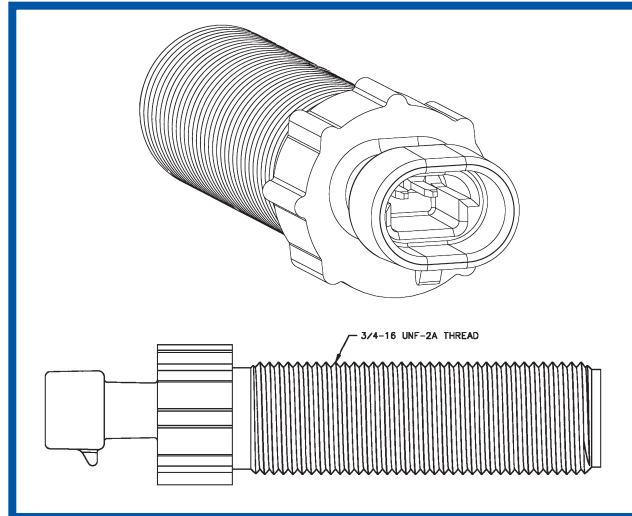
	Inner Coil	External Coil
Resistance for dual coil	890 ohm ±10%	1270 ohm ±10%
Inductance for dual coil*	200 mh ±20%	220 mh ±20%
Resistance for single coil	270 ohm ±10%	
Inductance for single coil*	94 mh ±20%	

\*1000 Hz 3" leads

#### OUTPUT

Coil output minimum: P-P volts

	143 RPM		3500 RPM	
	Air Gap: 0.5 mm	1.27 mm	0.5 mm	1.27 mm
Single output	3.11	1.69	19.65	11.47
Dual output, inner coil	4.15	2.27	23.88	13.99
Dual output, external coil	4.82	2.63	30.33	17.54



Wabash standard 4" diameter tone wheel (single tooth) is used for testing. Measurements are done with a 10K-ohm load in parallel with a 470pf capacitor across the coil. Actual result will vary based on target wheel, tooth configuration, controller impedance, etc.

#### DURABILITY

All measurements made at free ambient air at 25° ±5° (77° ±9 °F)

Condition	Units
Air to Air	Monitor coil resistance each half cycle.
Thermal Shock	No more than ±60% change in R from room temp. No distortion which inhibits sensor function. No physical damage.
Salt Spray	Corrosion superficial, nonferrous and not impair function. No physical damage or distortion. No salt ingress past connector seal.
Liquid Containment	After exposure, wipe clean and visually inspect. No physical damage or distortion.
Immersion	
Humidity	No physical damage or distortion. No evidence of moisture ingress past connector seal.
Vibration	Monitor coil resistance. No physical damage or distortion.
Submersion	Sensor shall not allow ingress of water as defined by hypot test failures.



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