



Wabash GPSS

Generic Push-in Speed Sensor

Designed for rugged, reliable speed sensing requirements where durability and dependability are required.

The Wabash Generic Push-in Speed Sensor (GPSS) 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 GPSS is ideal for applications such as:

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

The GPSS offered in single or dual outputs, is a proven, time-tested sensing product. GPSS sensors deliver the dependable performance commercial vehicle control systems require under the most punishing conditions and environmental extremes.

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



Committed to sensor advancement.





Wabash GPSS

Generic Push-in Speed Sensor

Technical Specifications

PHYSICAL

- Ideal for transmission speed sensor applications
- Proven design (multiple customers and applications)
- Single or dual output
- Multiple electrical packages

ELECTRICAL

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

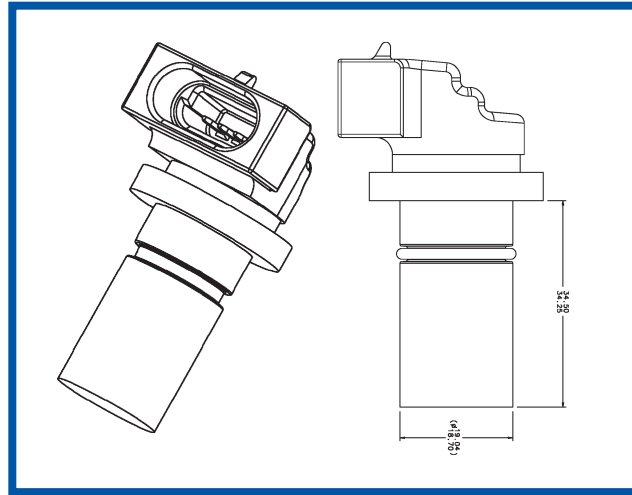
	Inner Coil	External Coil
Resistance for dual output	1600 ohm ±10%	2200 ohm ±10%
Inductance for dual output*	1.17 ±0.10mh @ 1000 Hz	1.21 ±0.10mh @ 1000 Hz
Resistance for single output	1600 ohm ±10%	
Inductance for single output*	1.17 ±0.10mh @ 1000 Hz	

*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	4.91	2.70	49.63	28.75
Dual output, inner coil	4.64	2.57	48.95	28.39
Dual output, external coil	4.82	2.63	48.93	28.03



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.
Immersion	No physical damage or distortion.
	No evidence of moisture ingress past connector seal.
Humidity	Monitor coil resistance.
	No physical damage or distortion.
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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