







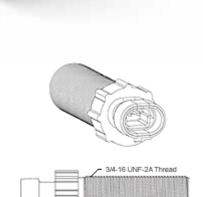
GPSS

Generic Push-in Speed Sensor

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

The 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 felxibility in variations and features. The GPSS is ideal for applications such as:

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





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

commerical vehicle control systems require under the most punishing conditions and environmental extremes.

Count on 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.

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 @ 25°C ±5° (77°F ±9°)

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

*1000 Hz 3" leads

OUTPUTCoil output minimum: P-P volts

	143 RPM			3500 RPM		
Air Gap:	0.5mm	1.27mm	0.5mm	1.27mm		
Single output	4.91	2.70	49.63	28.75		

Dual output, inner coil	·	<u> </u>		28.39	
Dual output, external coil	4.82	2.63	48.93	28.03	
DURABILITY All measure	ements made at free ambient a	ir @ 25°C ±5° (77°F ±9°)			
Durability	Condition		Units		
Air to Air	-40°C to +150°C		Monitor coil resistance each half cycle.		
Thermal Shock	60 min soak			± 60% change in R from room temp.	
	< 5 min transfer		No distortion which inhibits sensor function.		
	1000 Cycles	cles No physical damango			
Salt Spray	1000-hour		Corrosion superficial, nonferrous and not impair		
	Per ASTM B117-73		function.		
			No physical damage or	distortion.	
			No salt ingress past cor	nnector seal.	
Humidity	Mount sensor with mating	g connector and test sensor	No physical damage or	distortion.	
	per SAE J1455 Sect 4.2.	3 figure 4a.	No evidence of moisture ingress past connector se		
	Test for 60 cycles of 8 ho	urs. Upper soak temperature			
	is to be 85°C. 95% ±3%	relative humidity should be			
	maintained at all times fo	r temperature ranges of 15 -			
	38 °C. Resistance should	d be checked and must be			
	within specification.				
Liquid Containment	200hr soak at 125°C ±3°		After exposure, wipe cle	ean and visually inspect.	
Immersion			No physical damage or	distortion.	
	 Transmission fl 	uid			
	 Diesel fuel 				
	 Motor oil 				
	 Detergent 				
	 Antifreeze (SAI 	E-J1034)			
	 Brake fluid (SA 	E-J1703F)			
	 Full CD-50 syn 	thetic lubricant			
	 Magnesium Ch 	loride			
	Calcium Chloric	de			
Vibration	Mount the sensor in a fix	ture equivalent to the	Monitor coil resistance.		
Vibration		esistance of device shall be	No physical damage or	distortion	
	•	nt within specification after	rio prijologi damago or	diotortion.	
	being subjected to the fo	•			
	assembly in 3 mutually p	-			
	planes for 24 hours (8 ho	-			
		Frequency range is to be			
	•	ver Density Level to be 0.2535			
		ive roll-off to from 100 to 500			
	Hz. Overall Acceleration	level 8G's.			
Submersion	Completely immerse sen	sor in 5% salt, 1% soap			
		eck for electrical continuity to			
	•	art 125 to -40 for 100 cycles in			
		at immersion testing. Repeat			
		onal times (500 total thermal			
	cycles).				