

PEGASEM WSS

Wheel Speed Sensors



PEGASEM Wheel Speed Sensors deliver high precision information on the rotational speed of the car wheels. Often, they are used as precision vehicle speed and distance transducers. For testing of tyres and Anti-Blocking-Systems (ABS), they give exact information on the status of the wheels for slip and skid calculations. Our Wheel Speed Sensors have been designed for the harsh environments typical of tests on a car wheel hub. They resist shock, vibration, dust, mud, salt-water, snow and ice without problems. They fit seamlessly into the PEGASEM Modular Mounting System and can quickly be attached to a wide range of different wheels and hubs.

The three different versions of this series of sensor meet various needs in the vehicle testing business.



They are available with pulse output, analogue speed and/or serial data output and calibration capabilities.

Features

- Incremental pulse output
- Analogue speed output
- Dynamic tyre size compensation
- Scaleable to any wheel size
- Vibration Signal Output
- High shock and vibration durability
- Salt-water proof
- Designed for the harsh environments

Applications

- Precision vehicle speed information
- Precision distance measurement
- Control of vehicle speed during crash tests
- Slip test
- Skid test
- Refinement of ABS
- Support of GPS based test equipment

Technical Data	WSS2	WSS3	WSS4	Unit / Comments
Electrical Specifications				
Supply Voltage (Vcc)	5..24	5..24	5..24	VDC
Typ. Supply Current	25	25	40	mA@12V
Digital Output Type	TTL 5V	TTL 5V	TTL 5V	Dual channel quadrature
Digital Output Pulse Rate	128	1024	1024	PPR
Analogue Speed Output	-	-	0..4095	mV
Serial Interface (RS232)	-	-	yes	
Internal Distance Counter	-	-	yes	Accesible per RS232
Optional Windows software for online speed display	-	-	yes	Linked per RS232
Calibration Capability				
Output Pulse Rate	-	-	yes	128/256/512/1024 PPR
Speed Voltage	-	-	yes	
Mechanical Spezifications				
Detachable Harness Protection Tube	yes	yes	yes	
Length of Harness Protection Tube	680	680	680	mm (1)
Connector Type	Push-Pull	Push-Pull	Push-Pull	Waterproof
Maximum Rotational Speed	3000	3000	3000	RPM
Stainless Steel Hub Ball Bearings	yes	yes	yes	
Operational Temperature Range	-40..+70	-40..+70	-40..+70	°(Deg C)
Sensor Size (WxDxH)	42x26x100	42x26x100	42x26x100	mm
Weight (Sensor only)	255	255	260	gramms
Sealing	IP67	IP67	IP67	Hermetically sealed

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