

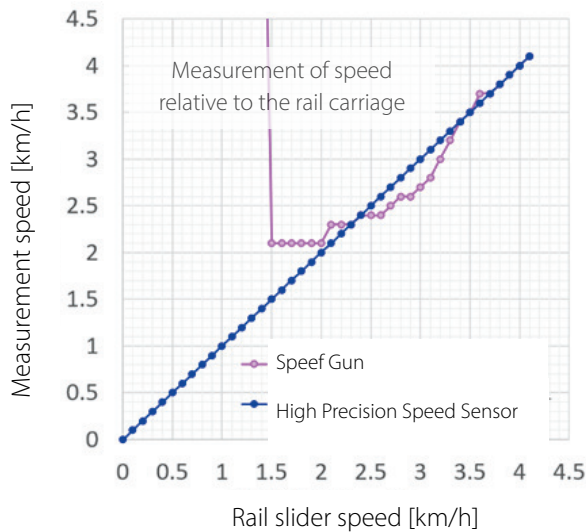
High-Precision Speed Sensor

Accurately measures speeds from 0 km/h without requiring vehicle speed information



Features

- Accurate measurement from 0 km/h to 160 km/h
- No vehicle speed information required
- Easy installation and retrofitting
- Measurement possible under all wheel conditions

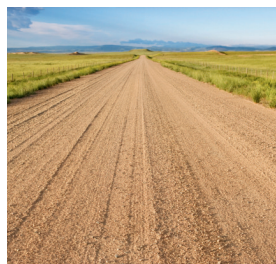


- High Precision Speed Sensor
Accurate measurement from 0 km/h
- Speed Gun
Less than 1.5 km/h cannot be measured

Use Case

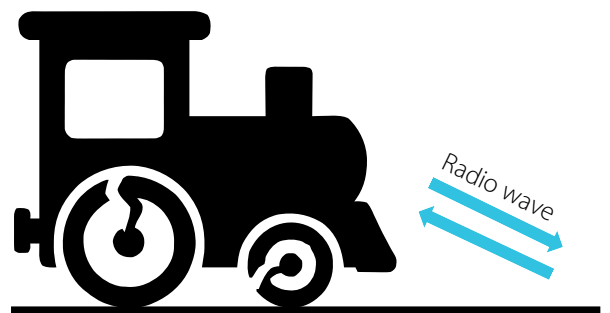
Construction and Agricultural Machinery

Accurate measurements can be taken even on slippery or unpaved surfaces, such as construction sites and farm fields.



Train

Accurate measurements can be taken even at low speeds and in idling or sliding conditions.



Specification	
Main Features	Detailed Specification
Frequency	77 GHz Band
Radar System	FMCW + Coded MIMO
Radar Transmitting Power	≤ 10 mW
Measurement Speed Range	-160.0 to +160.0 km/h (with forward/backward discriminator)
Measurement Accuracy	±0.5 % (TBD) or less
Field of View	Azimuth: ±7,5° (total width: 15°), Elevation: ±3° (total width: 6°)
Power Supply Voltage	DC 8 to 20 V, Nominal Voltage 12 V
Power Consumption	3 W typ. (TBD) (at Power Supply Voltage of 12 V and Operating Temperature of 25 °C)
Operating/ Storage Temperature	-40 to +85°C
Humidity	< than 95 %RH (No condensation)

Specification	
Main Features	Detailed Specification
Ingress Protection	Equivalent to IP66
Dimension, Weight	91 mm x 101 mm x 27 mm (Excluding protrusions), ≤ 300 g
Interface	RS-485 (Half-duplex, Full-duplex)
Data output interval	100 ms
Surge (Load dump)	ISO 16750-2:2012 (Pulse 5b, 12 System)
ESD	ISO 61000-4-2 (Level 3, Contact discharge: ±6 kV, Air discharge: ±8 kV)
Vibration	JIS D 1601:1995 (9 G, Vibration Acceleration Stage Division: 90, Frequency Range Division: 200, Frequency: 33 Hz)
Shock	JIS C 60068-2-27:2011 (100 G, Peak Acceleration: 1000 m/s2, Duration: 6 ms, Half-sine pulse Velocity Change: 3.8 m/s)

