![FRAUSCHER logo]

Wheel Detection

Wheel Detection System RSR123v-VEB

This wheel detection system consists of a Wheel Sensor RSR123v and the evaluation board VEB. A specific software enables speed measurement of a passing train and provides appropriate data for related applications.

Information

Speed

Applications
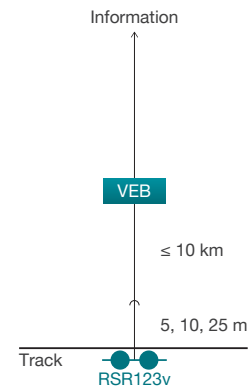
Speed measurement

Speed checking facility

Benefits

Accurate measurement of speed

Evaluation via only a single wheel sensor

Simple and efficient

RSR123v-VEB

The Wheel Detection System RSR123v-VEB provides speed as well as status and diagnostic information in a simple and cost-efficient manner via an open CAN interface in real-time.

The speed measurement provided by just one sensor results to within a tolerance of ± 3%.

VEB	Evaluation board
RSR	Wheel sensor

Technical Data

	RSR123v (Typ RSR123-004)	VEB
Interface		CAN interface
Speed		1 km/h to 350 km/h
Measurement tolerance		< ±3% up to 160 km/h
Temperature	-40 °C to +85 °C	-40 °C to +70 °C
Humidity	Up to 100%	Up to 100% (without condensation or ice formation for the entire temperature)
Electromagnetic compatibility	EN 50121-4	EN 50121-4
Conditions	UV resistance: yes Protection class: IP65 / IP68 to 8 kPa/60 min. Wheel diameter: 300 mm to 2 100 mm	Mechanical stress: 3M2 in accordance with EN 60721-3-3
Dimensions	Height: 60 mm Width: 270 mm Depth: 77 mm	Format: 19" housing for 100 mm x 160 mm boards Width: 4 width units Height: 3 height units
Power supply		Voltage: +19 V DC up to +72 V DC Power: approx. 4.5 W per counting head Isolation voltage: 3 100 V