



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



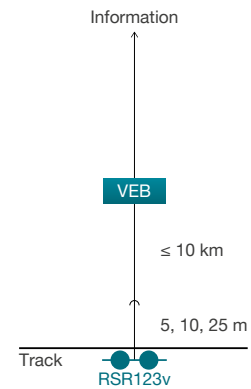
Benefits

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 $\pm 3\%$.



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 | | < $\pm 3\%$ 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 |