



Wheel Detection

Wheel Detection System RSR180-AEB

The Wheel Detection System RSR180-AEB can be used for a variety of different applications. A special feature is the flexible software interface, which can be extended by a hardware interface.



Information

- Wheel detection (SIL 4)
- Direction (SIL 4)
- Number of axles
- Diagnostic data



Applications

- Track vacancy detection
- Level crossing protection
- Switching tasks



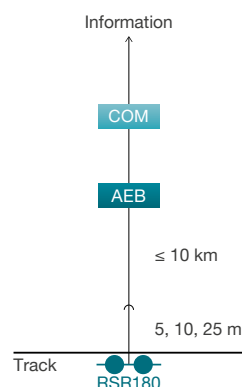
Benefits

- Universally applicable
- No need to adjust the wheel sensor
- Software interface, optocoupler or relay
- Suitable for grooved rail

RSR180-AEB

Proven technology distinguishes the universal Wheel Sensor RSR180. It is not necessary to adjust the sensor. The Wheel Detection System RSR180-AEB is resistant to disturbances caused by magnetic rail brakes and can also be used in grooved rails.

The AEB evaluation board in combination with COM communication board has a flexible software interface. This can be adapted to customer-specific systems and can be extended by a hardware interface.



COM Communication board
AEB Evaluation board
RSR Radsensor

Technical Data



	RSR180	AEB
Interfaces		Flexible software interface (COM) Optocoupler or relay via IO board
Safety level		SIL 4
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 range)
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 Speed: 0 km/h (static) to 450 km/h	Mechanical stress: 3M2 in accordance with EN 60721-3-3
Dimensions	Height: 60 mm Width: 230 mm Depth: 77 mm	Format: 19" housing for 100 mm x 160 mm boards Width: 4 width units Height: 3 height units

	Optocoupler	Relay
Dimensions	Max. C-E voltage: 72 V DC Max. switching current: 17 mA	Max. voltage: 110 V DC or 120 V AC Max. switching current: 50 mA (inductive at 110 V DC) depending on the max. switching voltage
Power supply	Voltage: +19 V DC to +72 V DC Power: approx. 3 W per counting head Insulation voltage: 3 100 V	Voltage: +19 V DC to +72 V DC Power: approx. 3 W per counting head Insulation voltage: 3 100 V