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Track more with less.

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

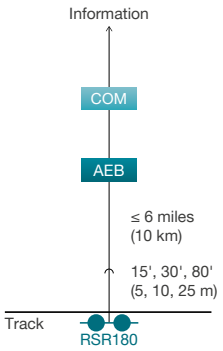
Software interface, optocoupler or relay

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 track brakes and eddy currents, and can also be used in grooved rails.

The AEB evaluation board, in combination with a 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 Wheel sensor

Technical Data

	RSR180	AEB
Interfaces		Flexible software interface (COM) Optocoupler or relay via IO board
Safety level		SIL 4
Temperature	-40 F to +185 F (-40 C to +85 C)	-40 F to +158 F (-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
Further conditions	UV resistance: yes Protection class: IP65 / IP68 to 8 kPa/60 min. Wheel diameter: 1' (300 mm) to 7' (2100 mm) Speed: 0 mph (static) to 280 mph (0 km/h (static) to 450 km/h)	Mechanical stress: 3M2 in accordance with EN 60721-3-3
Dimensions	Height: 2.4" (60 mm) Width: 9" (230 mm) Depth: 3" (77 mm)	Format: 19" housing for 4" (100 mm) to 7" (160 mm) boards Width: 4 width units Height: 3 height units

	Optocoupler	Relay
Signal limits	Max. C-E voltage: 72 V DC Max. switching current: 17 mA Insulation voltage : 2,500 V AC	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

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