



Wheel Detection

Wheel Detection System RSR180-IMC

The Wheel Detection System RSR180-IMC can be used for a variety of different applications. Due to customer-specific adaptations, more than 70 configuration variants are already available.



Information

Wheel detection (SIL 4)
Direction (SIL 3 or SIL 4)



Applications

Track vacancy detection
Level crossing protection
Switching tasks



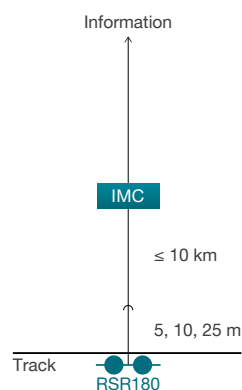
Benefits

Universally applicable
No need to adjust the wheel sensor
Resistant to magnetic track brakes
Suitable for grooved rail

RSR180-IMC

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

The IMC evaluation board can selectively output safe system occupation and direction information via optocouplers or relays.



IMC Evaluation board
RSR Wheel sensor

Technical Data



	RSR180	IMC
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
	Optokoppler	Relais
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