



#### **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

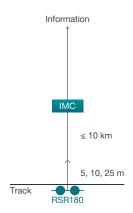
Suitable for grooved rail

# 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.

**RSR180** 



IMC Evaluation board RSR Wheel sensor

**IMC** 

## **Technical Data**





	KOKIOO	
Interfaces		Flexbile 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: 60 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