FRAUSCHER

Track more with less.



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



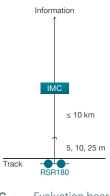
Benefits

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.



IMCEvaluation boardRSRWheel sensor

| Technical Data | | |
|-------------------------------|---|--|
| | RSR180 | IMC |
| Interfaces | | Optocoupler or relay |
| Safety level | | SIL 3 or 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) |
| Electromagnetic compatibility | EN 50121-4 | EN 50121-4 |
| Further 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 100mm x 160mm 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 | Max. voltage: 72 V DC Max. switching current: 500 mA DC Insulation voltage: 800 V |
| Power supply | Voltage: +19 V DC to +72 V DC Power: approx. 4.5 W per counting head Insulation voltage: 3 100 V | Voltage: +19 V DC to +32 V DC Power: approx. 4.5 W per counting head Insulation voltage: 3 100 V |