

WHEEL DETECTION

Wheel Sensor RSR110



The Wheel Sensor RSR110 can be easily integrated into the electronics of any system thanks to its open analogue interface. It enables system integrators to adapt the interpretation of the signal perfectly in line with individual requirements.



INFORMATION

Analogue sensor signal for the evaluation of wheel detection (SIL 0), direction (SIL 0), speed, wheel diameter or wheel centre



APPLICATIONS

Switching and triggering tasks such as hot box and flat wheel detection systems, lubrication systems, vehicle detection, weighbridges, washing systems and further more



BENEFITS

Open analogue interface
Simple integration
High availability
Very precise information
Convenient plug-in connection and rail claw

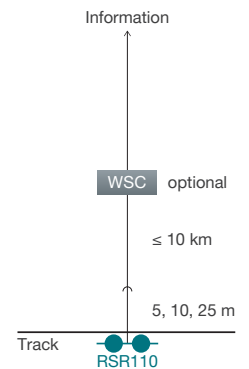
RSR110

The evaluation of the current signal can be carried out completely freely according to own requirements via a simple electronics, PLC or a microcontroller. The number of hardware components as well as the space and power requirements is thus lower. The threshold values for triggers and the sampling rate are also freely selectable depending on the specific application.

For systems in which individual software integration is not necessary, the wheel sensor information can be digitized via the Frauscher Wheel Sensor Signal Converter WSC.

WSC Wheel Sensor Signal Converter

RSR Wheel sensor



Technical Data



RSR110

Interfaces	Open analogue interface or optional Wheel Sensor Signal Converter WSC
Safety level	SIL 0
Output signal	Wheel sensor current: constant current (5 mA) Current change when damping by train wheel
Temperature	-40 °C to +85 °C
Humidity	Up to 100%
Electromagnetic compatibility	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
Dimensions	Height: 60 mm Width: 270 mm Depth: 77 mm
Power supply	Voltage: +8 V DC to +33 V DC