



## Wheel Detection

# Wheel Detection System RSR123-AEB

The Wheel Detection System RSR123-AEB is commonly used in the area of level crossings. A special feature is the flexible software interface, which can be extended by a hardware interface.



### Information

- Wheel detection (SIL 4)
- Direction (SIL 4)
- Numbers of axles
- Diagnostic data



### Applications

- Track vacancy detection
- Level crossing protection
- Switching tasks



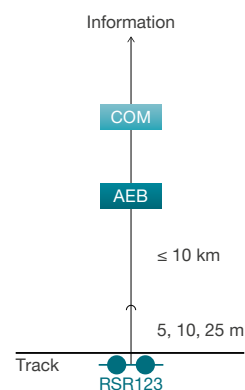
### Benefits

- Highly resistant to electromagnetic interferences
- Convenient plug-in connection and rail claw
- Software interface, optocoupler or relay

# RSR123-AEB

Based on the patented V.Mix Technology, the RSR123 combines different inductive sensing methods making it highly resistant to electromagnetic interferences caused by eddy current brakes or rail currents.

The AEB evaluation board in combination with 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



	RSR123	AEB
<b>Interfaces</b>		Flexible software interface (COM) Optocoupler or relay via IO board
<b>Safety level</b>		SIL 4
<b>Temperature</b>	-40 °C to +85 °C	-40 °C to +70 °C
<b>Humidity</b>	Up to 100%	Up to 100% (without condensation or ice formation for the entire temperature range)
<b>Electromagnetic compatibility</b>	EN 50121-4	EN 50121-4
<b>Conditions</b>	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
<b>Dimensions</b>	Height: 60 mm Width: 270 mm Depth: 77 mm	Format: 19" housing for 100 mm x 160 mm boards Width: 4 width units Height: 3 height units
	<b>Optokoppler</b>	<b>Relais</b>
<b>Dimensions</b>	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
<b>Power supply</b>	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