

## Wheel sensor RSR180

Depending on signal evaluation and safety requirements, wheel sensor applications may comprise anything from simple detection and monitoring tasks to detection of driving direction and axle counting.



<b>Box dimensions</b>	
Height	60 mm
Width	230 mm
Depth	60 mm
Bore distance	145 mm
Bore diameter	12 mm
<b>Input voltage</b>	12 V DC to 30 V DC (59 mA constant current)
<b>Output signal</b>	
Sensor current	Constant current (depending on rail type and mounting position)
Current upon occupancy	Change of sensor current (damping by train wheel)
Drop off detection	Yes
<b>Cable set</b>	Non-detachable cable (standard length 5 m)
<b>Adjustment</b>	No adjustment on the track (Adjustment will be done at the indoor installation)
<b>Mounting</b>	Simple and universal mounting with adjustable rail claw for all common rail profiles (S41, S45, S49, UIC60, R65, etc.) No drilling of the rail necessary!
<b>Protection class</b>	IP65 / IP68 – 8 kPa/60 min
<b>Ambient conditions</b>	
Temperature	-40 °C to +85 °C
Humidity	up to 100 %
UV resistance	Yes
<b>Wheel size (Diameter)</b>	300 mm to 2100 mm
<b>Traversing speed</b>	0 km/h (static) to 450 km/h Correct evaluation of partial traversings
<b>Particular characteristics</b>	<ul style="list-style-type: none"> <li>• No adjustment within the danger area</li> <li>• High compatibility regarding magnetic interference fields and track currents</li> <li>• Simple and universal mounting with adjustable rail claw</li> </ul>
<b>Applications (example)</b>	Heavy rail & main lines in Europe, Africa, Asia and Australia, United States of America. Light rail, metros and industrial railways