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### Description:

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The Model 2100-696 Frauscher Zero-Speed Dual Gating Wheel Detector Assembly is a rail-mounted device that generates wheel timing signals for a SmartScan NG<sup>2</sup> defect detector. It mechanically clamps the gating transducers to the rail, thus eliminating the need to drill mounting holes. Its rail claw bracket is fully adjustable and allows for proper transducer alignment over a wide range of rail sizes. For optimum performance, the gating transducers must be positioned 1-9/16 inches (40 millimeters) below the crown of the rail.

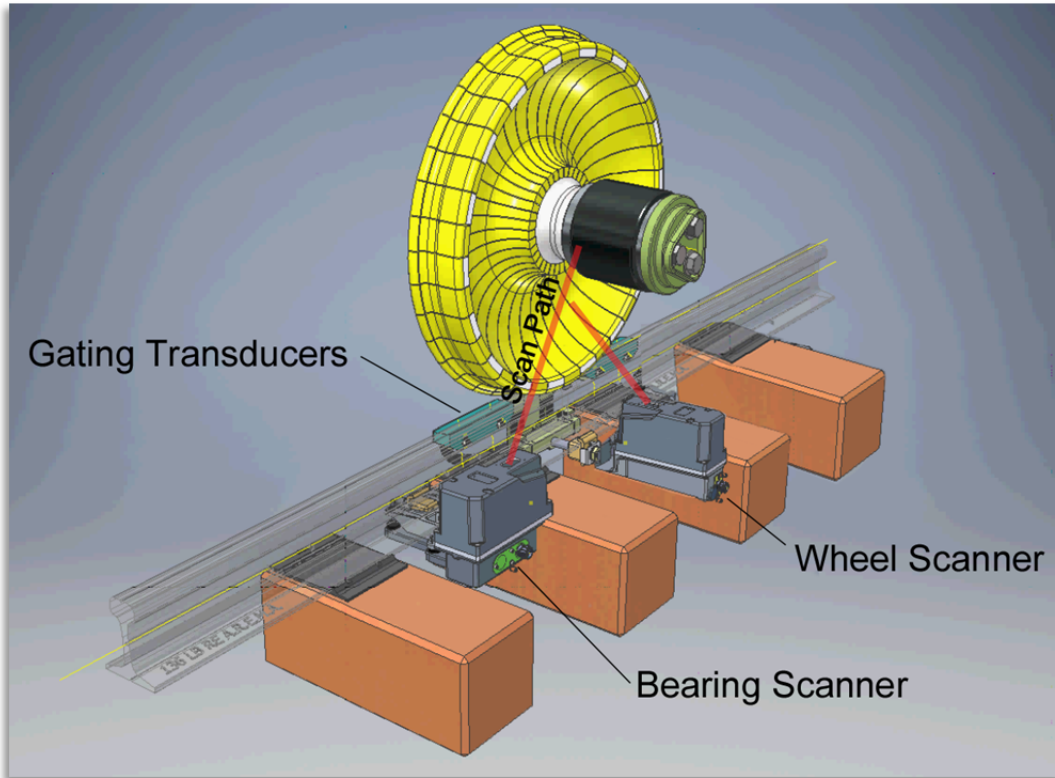
The 2100-696 uses two Frauscher RSR110 inductive proximity sensors. Their internal sensing coils and electronic circuitry offer high immunity from radiated noise emitted by locomotive traction motors and dynamic brakes. Once installed, the sensors are easily calibrated using the Automated Adjustment Function.

The plug-in connector cable significantly reduces the effort required for assembly, disassembly or changing the sensor, which in turn gives rise to savings both in terms of money and time. It also minimizes the amount of time spent by service personnel in a hazardous area.

## Application:

The wheel timing signals generated by the 2100-696 allow a SmartScanNG<sup>2</sup> defect detector system to:

- Coordinate bearing and wheel temperature measurements
- Determine a train's direction
- Calculate a train's exit speed
- Calculate a train's length
- Identify individual railcars and locomotives based on axle spacing patterns



## General Specifications:

Voltage Input	8 VDC to 33 VDC
Dimensions	30.81" x 10.50" x 6.75"
Weight	Total Weight 53.70 lbs. (Entire assembly including rail mount, Transducers, and cables.)
Temperature Spec. - Industrial	-40°C to +70°C
Speed	0 mph to +100 mph
RoHS Compliant	No