Loram’s WDS2™ is an economical, yet rugged, wheel detection system suitable for freight rail applications.

**How it Works.**

WDS2™ is mounted to the location of your choice by positioning clamps on the sides and below the selected rail. The WDS2™ has an adjustable sensing range, with the ability to decrease sensitivity below the maximum sensing distance (1.89”). Unlike competitors’ wheel detectors, Loram’s WDS2™ is polarity sensitive. Radio Frequency Immunity (RFI) sensitivity, and any metal background influence are adjustable through the potentiometer.

**Benefits.**

- Large vertical sensing range (up to 2”), making only an approximate height adjustment required
- Sensor shield protects from any possible impact of a dragging machine
- Senses wheel speeds up to 80 mph
- No rail drilling required for installation and / or removal
- Works on various rail weights

**Installation, Maintenance, and Performance**

WDS2™ is simple to install and maintain. It can be installed in a few hours. All-weather cable is available in custom lengths to suit your needs, and exits from the bottom to avoid any potential of snagging.

WDS2™ offers a consistent all-weather operation from 158°F to minus 40°F, and works on various rail weights. Designed for impact resistance with heavy-duty CNC rail clamps, rugged aluminum mounting brackets, and a sensor shield, Loram’s WDS2™ sensor is suitable for all your demanding rail applications.

**Reliable Service and Support.**

With more than 30 years of helping railroads extend rail life through rail grinding, Loram has now added the most advanced friction modification systems in the industry to our product offerings. Extend the life of your rail assets, select Loram’s Maintenance of Way Products.

For more information visit www.loram.com or call your local Loram Regional Manager.
## Specifications

**Sensing Range:**
0.94 - 1.89 inches

**Temperature Range:**
-40º F to +158º F

**Enclosure Rating:**
NEMA Type 4, IEC Type IP67

**Vibration Resistance:**
25 G, amplitude ±.08 in., f = 10 - 55 Hz

**Shock Resistance:**
25 G for 11 ms

**Standard Target Size (Mild Steel):**
4.7 x 4.7 inches

**Differential:**
Maximum 20%

**Repeatability:**
Maximum 5%

**Repeatability:**
2 wire #18 AWG SJOW

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**Wheel Detector WDS2™** may show instability if used in areas with EMF caused by AC currents.

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![Wheel Detection System]

**Wheel Detector WDS2™ Sensor Kit**

![Alignment Tool (Available Separately)]

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