

Wheel Impact Load Detector

Features

- Impact Force Monitoring
- Train, vehicle, and wheel information
- Bi-directional traffic
- Automatic car counting and identification (with valid car library)
- Self-diagnostics
- Instrumentation layout optimized for fleet wheel diameters
- Greater number of measurement zones = greater accuracy
- AAR Rule 41 Standard Compliant
- Automated alarm notification



■ W I L D ■

Wheel Impact Load Detector

The SALIENT SYSTEMS Inc. WILD detector is a hardened electronic data collection device which measures vertical wheel forces on the rail via rail mounted strain gages. The Wheel Impact Load Detector measures impact forces caused by damaged wheels. These high impact forces damage vehicles, cargo, and infrastructure.

Benefits:

REDUCES:

Derailments

Rail fatigue

Bearing damage

Cold weather rail fractures

Car and truck damage

Concrete tie cracking

Wood tie plate cutting

INCREASES:

Wheel tread life

Fuel efficiency

LBFoster

Salient Systems

Wheel Impact Load Detector - WILD

WILD Measurements:

- Wheel IDs (L1, R4) with:
 - Nominal load
 - Peak load
 - Dynamic load (peak-nominal)
 - Ratio (peak/nominal)
- Axle Loads
- Train Speed
- Merges AEI Car Tag IDs
- Total Train Length
- Total Tonnage (by train, week, and month)
- Weather information when equipped with weather station.
- Additional modules available (Truck Hunting, Weigh In Motion, Overload and Imbalance Detection)



System Specifications:

Operating speeds - 30 mph to 180 mph (50 to 300 km/h)

Resolution - 10 lb. / 50 Newtons

Accuracy - 1% Static / 2% Dynamic*

Measurement zone - 50-foot / 16-meters

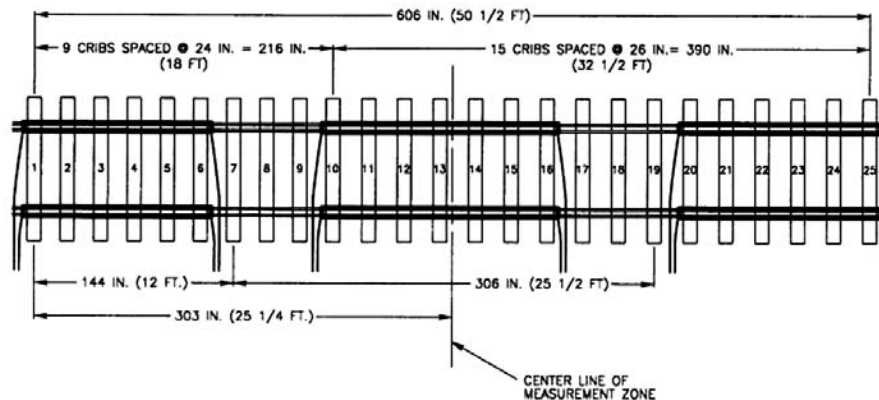
Hardened electronics in 19" rack

Power - 120/220 volts AC or 12/24 volts DC

Power - Approximately 4 amps at 24 volts DC

Electronic system operating temp. - -20°C to 55°C

* Typical accuracy with WIM option



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