



plSS® Precision Linear Speed Sensor

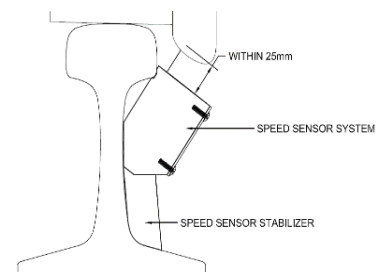
Multi-sensor Speed Measurement System

The duostech plSS® Precision Linear Speed Sensor is specially designed to provide extremely high resolution, non-contact train speeds accurate within 0.1 MPH. In addition, the plSS® Precision Linear Speed Sensor natively provides a variety of features to improve situational awareness of train movements and speed around the deployed area.

The plSS® Precision Linear Speed Sensor consists of specially designed bars milled from Ultra High Molecular Weight (UHMW) Polyethylene. Inductive proximity sensors are installed and interconnected directly inside each bar. Additional sensors are also included to provide supplementary data points.

plSS® offers:

- **Non-Invasive Rail Mounting** – The bar(s) are designed to attach directly to the rail using rare earth magnets. This eliminates the need to penetrate the rail for installation. These magnets also provide tremendous stability and security for the system.
- **Flexible Communications** – The system includes multiple methods of network communications including direct connect Category 5/6e copper, embedded cellular modem, and optional direct connect fiber optic connections.
- **Open Standards Data Flow** – Data and information flow is performed using our patent pending dejavue controller. This controller board provides all the local processing for the attached sensors and includes an embedded web server. All sensors terminate to this board to capture and process the different data streams.
- **Multiple System Interconnectivity** – An unlimited number of these systems can be seamlessly integrated together into a single operator interface and data consolidation point using our centraco® Enterprise Command & Control software.



Profile View of Speed Bar

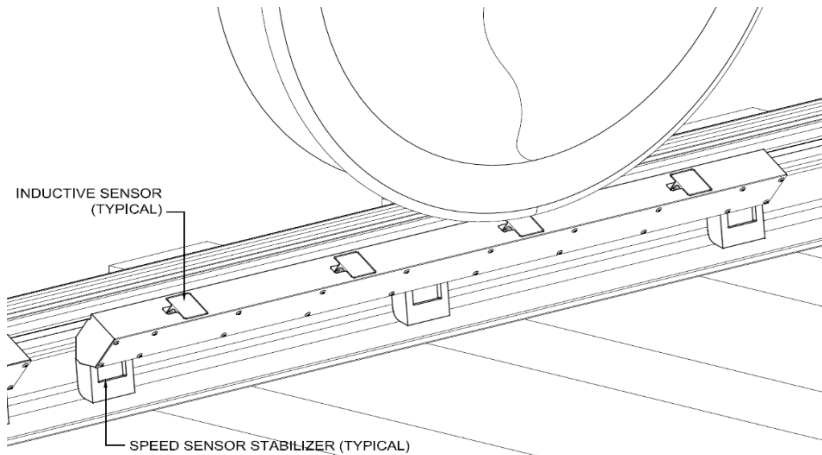


Native integration w/vue™



centraco™ User Interface

plss® Precision Linear Speed Sensor



Installed system with wheel perspective

Duos Technologies Inc. provides a broad range of sophisticated intelligent technology solutions with an emphasis on mission critical applications. We combine an innovative business philosophy with a focus on customer service. Our specialty is the development and delivery of customized turnkey solutions for rail centric critical infrastructure systems.

All products, systems and solutions are backed by a 24 x 7 x 365 global training, maintenance and service program.

Standard plss® Features

- Ruggedized UHMW Construction
- Multiple native embedded sensors
 - Inductive Proximity Sensor
 - Global Positioning System
 - Temperature & Humidity
 - Water Presence
- Embedded Controller (dejavue®)
- 10/100 Ethernet Port
- Cellular Modem (SIM and cellular service optional)
- Native 24VAC Power
- Completely distributive information system
- Ability to interconnect to other systems
- centraco® Information Management Software

Optional Modules and Features

- Hunting Detection
- GPS Location
- Onsite Installation Services
- Multi System Deployment
- Additional Sensor Inputs
- Solar Power Subsystem
- SIM Card & Cellular Services
- API/SDK for Integration
- centraco® Enterprise Command & Control Software

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