



Introducing the Future of Signaling Technology... Vital Core Integration

Thanks to our **Vital Core Integration**, Alstom can deliver a better modular, single-box solution that offers you the flexibility to obtain just as much vital signaling functionality as you need. *No more. No less.*

As a result, you receive Alstom's world-renowned safety at lower acquisition costs and lower lifetime ownership costs than ever before.

**Put World-Class Safety and
Reliability to Work on your Wayside**

Vital Core Integration allows multiple configurations to provide:

- Interlocking for commuter, freight and light rail
- Train detection/cab signaling
- Crossing control

*While its technology is the **Core** for developing New Innovative Products.*

Flexibility and Functionality You Need...

- Smaller, Modular, Highly Scalable Single-Box Solution
- Significant Cost Advantage
- Integrated Ethernet Interface
- Simple installation and maintenance
- Improve Interconnectivity
- Reduce spare parts inventory

iVPI

One solution from a simple end of siding to a very complex interlocking.

- **Integration** of track circuit function and interlocking control into one compact module
- **Integrated** ethernet interface
- **Integrated** state of the art test tools
- **Integrated** primary diagnostics

Genrakode 3

Provides proven, backward compatible Genrakode block signaling capability in addition to:

- Extended distance (5 miles) and software track set-up
- 70% reduction in components and spares
- Integrated hardware and software configuration data according to FRA requirements
- Energy conservation through hibernation - solar power mode
- Provision for automatic adjustments according to ballast conditions -monitored via ethernet

LOOK at Signaling In a Whole **NEW LIGHT**

Broken Rail Detection

- Inexpensive Dark Territory Solution
- Broken rail detection at 20% the cost of a track circuit
- Detection range up to 10 miles
- continuous or intermittent
- Provides indication to interlocking, train, cab or CTC
- Better detection and less derailments for greater safety

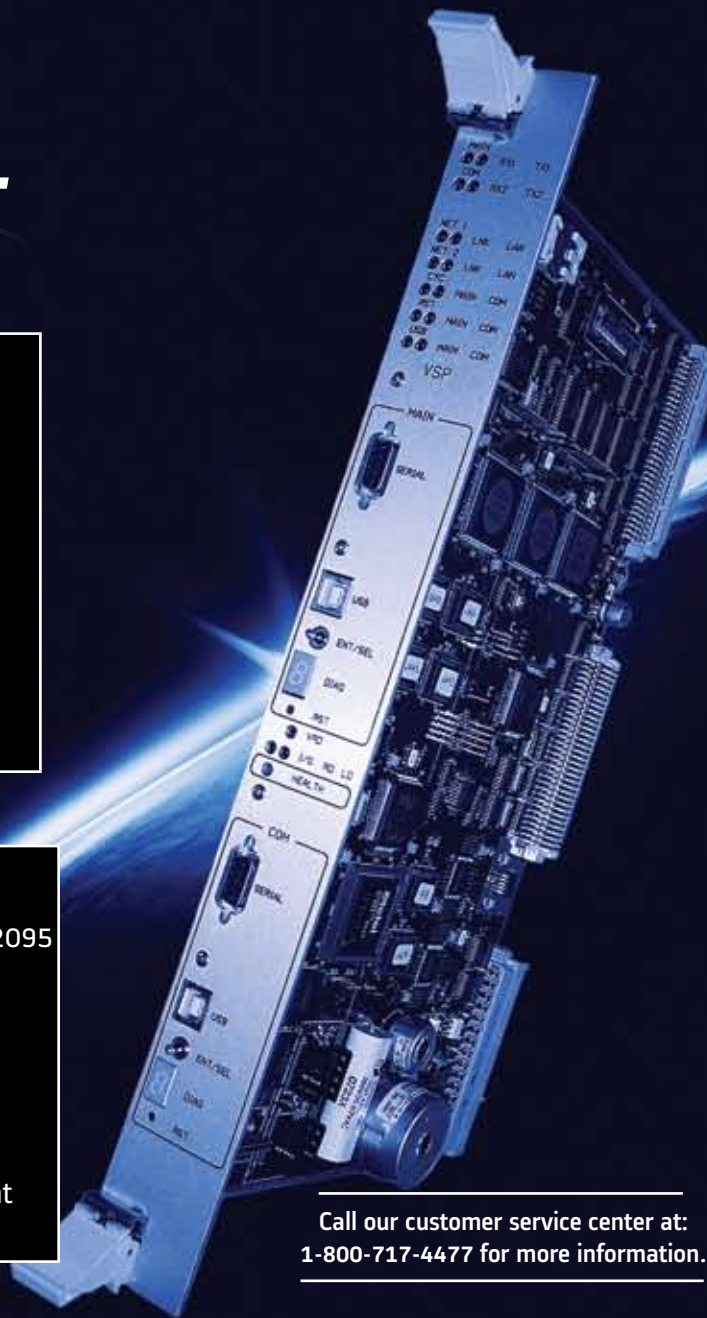
Hand Throw Switch Monitoring

- Used as an object controller for points or locks
- Addresses intent of rail safety legislation H.R. 2095
- Uses input from proximity sensors or circuit controllers
- Provides vital indications via ethernet, radio, or DC output uses
- Monitors one or more switches with inputs sent to train cab or CTC

Same approved safety design principles that have resulted in **ZERO** safety incidents for over 20 years!

Universal Wayside Interface Unit

- Configurable as:
 - Small interlockings
 - Track circuits
 - Vital or nonvital controllers
 - Remote I/O units
- Provides remote downloads and system configuration management
- Mix-and-match vital, nonvital, and diagnostics functionality all in one module
- Built-in health indicators and network diagnostics for reduced maintenance costs
- Rack or wall mountable



Call our customer service center at:
1-800-717-4477 for more information.