

*ITS Logic Enclosure  
(Assembly No. NYK:D241D60-A01)  
ITS Vehicle System Kit – Complete  
(Assembly No. NYK:D604028-A01)*

## RAIL AUTOMATION

# ITS

# Intermittent Train Stop

The Siemens Intermittent Train Stop (ITS) system is a complete solid state, fail-safe product for use in applications requiring intermittent speed commands. This solid state ITS system has lower purchase and maintenance costs when compared to the relay-based products it replaces.

## Background

Intermittent cab signal systems were the first type of cab signaling widely used throughout the United States. These systems were installed by western railroads that required the extra benefits of onboard signaling. These systems have continued to be used even with the advent of the more widely applied continuous cab signaling.

In offering this product, Siemens Mobility recognizes that there are still applications for this simple yet effective system that is superior to the aging relay-based designs.

## How It Works

A current is passed through the onboard pickup coil winding turning the inductor into an electromagnet.

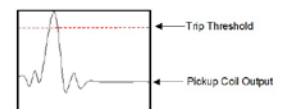
With its coil unshorted (the state for any aspect below a CLEAR), the wayside inductor provides an excellent return path for the onboard pickup coil's lines of flux. As the vehicles pickup coil passes over the wayside

inductor, there is a sudden and dramatic change in the flux density in both inductors, producing a voltage.

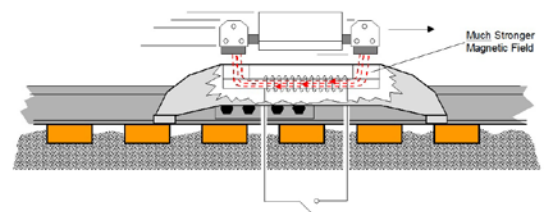
The signal produced in the pickup coil drives above the trip threshold set by the ITS. Upon violation of the trip threshold, the onboard ITS electronics will first alarm and then, if not acknowledged in the allotted time, will de-energize the magnet valve to apply the brakes.

## Features

- Solid-State Circuits
- Self Test Pushbuttons
- EMI Filtering
- Vital Fail-Safe Design
- Test Points for Easy of Inspection



*Response to an  
Open Circuited  
Wayside Inductor*



**SIEMENS**

## General Data

Specification	Parameters
Battery Voltage*	Nominal 74 VDC (Range 55 to 85 VDC)
Max Current	2.3 A @ 55 VDC
Max Watts	127 Watts
Max Detection Speed	100 MPH

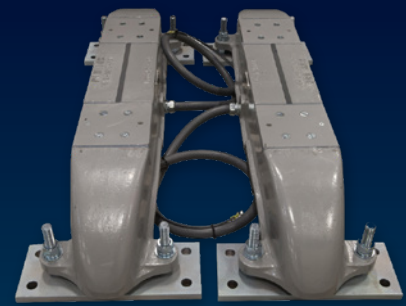
\*Other voltage options available

## Environmental Data

Specification	Parameters
Operating Temperature	-4 °F to +158 °F (-20 °C to +70 °C)
Storage Temperature	-67 °F to +203 °F (-55 °C to +95 °C)
Humidity (Maximum)	20% to 80% non-condensing

## Ordering

To Order Call	Specify
1 (800) 793-7233	Assembly Number



Wayside Inductor Coil  
(Assembly No. NYK:D335H01-A01)



Vehicle Inductor Coil  
(Assembly No. NYK:D018F27-A02)



Vehicle Mounting Bracket  
(Assembly No. NYK:D018F56-D01)

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