



CAB SIGNAL SYSTEM WITH TIME-TO-PENALTY OVERSPEED ENFORCEMENT

Freight Cab Signal System (iCab)

Time-To-Penalty Cab Signal Solution

Siemens Mobility is proud to continue to offer its Time-To-Penalty, Curve Based, Multiple Territory Cab Signal System for Freight applications operating over cab signal track. Siemens iCab System is a direct replacement for the obsolete Conrail type Locomotive Speed Limiter (LSL) systems. iCab offers multiple territory capability allowing equipped Freight trains to operate over several different railroads while maintaining proper speed enforcement.



Engineer Display Unit
(Assembly No. NYK:D2291H03-A01)

Features

- Solid-State LED Indicators
- Auto Dimming Feature
- Microprocessor Based
- Vital Design
- Time-To-Penalty Operation
- Multiple Operating Territory Enforcement
Include Newly Added MNR
- Speedometer
- Integration with ACSES II



SIEMENS

General Data

Specification	Parameters
Battery Voltage	Input Voltage: Nominal 74 VDC (range 50 to 92 VDC) Current: 7 A @ 74 VDC
MULTIPLE TERRITORY OPERATION	
Overspeeds Enforced Per Territory	
NEC Territory	Restricting – 20 MPH Approach – 20 MPH Approach Medium – 30 MPH Clear – 50 MPH
RF&P Territory	Restricting – 25 MPH Approach – 25 MPH Approach Medium – 45 MPH Clear – 60 MPH
MNR Territory (newly added)	Restricting – 15 MPH Medium – 15 MPH Limited – 25 MPH 60 – 30 MPH Normal – 50 MPH
CS-Only Territory	Restricting – 79 MPH Approach – 79 MPH Approach Medium 79 MPH Clear – 79 MPH
OUTPUT SIGNAL VOLTAGE	
Single Penalty Brake	Nominal 32 VDC (range 30 to 34 VDC)

Environmental Data

Specification	Parameters
Operating Temperature	-40 °F to +158 °F (-40 °C to +70 °C)
Storage Temperature	-67 °F to +203 °F (-55 °C to +95 °C)
Humidity (Maximum)	20% to 80% non-condensing
Shock & Vibration	Class B (ENG 1373) (Body Mounted)

Ordering

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



Train Controls

The iCab provides for the various train control features and functions:

- Supports NEC, RF&P, MNR and CS-Only territories
- Provides ASC & ATS Enforcement
- Speedometer on Engineer's Display Unit (EDU)
- Dual Faced ADU
- Internal Datalogger
- Single 100 Hz Carrier Cab Signal



Ideal for Freight Trains

iCab is designed specifically for Freight operation where train handling is important and where a suppression only based Cab Signal system would not be practical.

Transitions from more permissive aspects to less permissive aspects are handled using braking curves that are represented to the operator in the form of time to a target/penalty (in seconds). This allows the train operator visibility to the required speed limit and allows time to properly handle the train to achieve the new lower speed.



Aspect Display Unit
(Assembly No.
NYK:D2291H10-A01)



iCab System Enclosure
(Assembly No.
NYK:D2291H01-A05)

Siemens Mobility, Inc.
One Penn Plaza
11th Floor, Suite 1100, New York, NY 10119, United States

Contact for information:
Rail Infrastructure Headquarters, Homestead, PA 15120
1 (800) 793-7233, siemensmobility.us@siemens.com

Printed in the USA | © 2021 Siemens Mobility, Inc. | usa.siemens.com/mobility

Subject to changes and errors. Reference to any specific commercial products, processes, or services, or the use of any trade, firm, or corporation name is for the information and convenience of the public and does not constitute endorsement, recommendation, or favoring by their respective entities. The information given in this document only contains general descriptions and/or performance features. The requested performance features are binding only when they are expressly agreed upon in the concluded contract.