



RAIL AUTOMATION

MPBI – Multiple Penalty Brake Interface

Siemens Multiple Penalty Brake Interface (MPBI) is intended to provide a vital “AND” function to allow multiple train control system’s penalty brake outputs access to a single penalty brake input to the brake system.

Train Control Systems

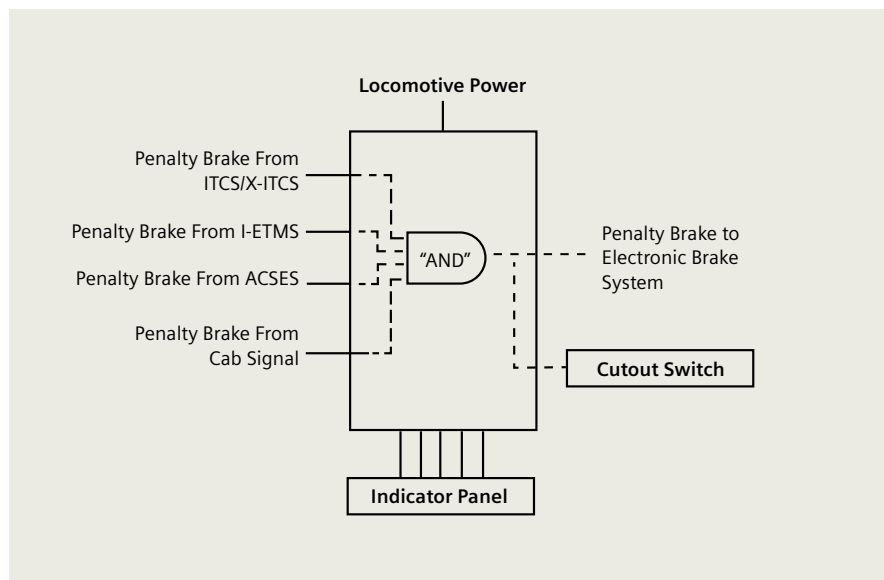
The MPBI device provides support for the various train control systems in use today:

- Siemens or other vendor Cab Signal System (ATC)
- Siemens Advanced Civil Speed Enforcement System (ACSES)
- Wabtec® I-ETMS™
- Alstom®/GE® ITCS®/X-ITCS®

The MPBI provides railroads with a safe and convenient way to connect their various Positive Train Control (PTC) systems on board their vehicles to the single penalty brake.

Features

- Solid-State LED Indicators
- Lamp Test Pushbutton
- Microprocessor Based
- Vital Design
- Up to 4 Inputs
- Multiple Cutout Options
- Source of Penalty Indicators



General Data

Specification	Parameters
Battery Voltage	Input Voltage: Nominal 74 VDC (range 55 to 85 VDC) Current: 0.35 A @ 55 VDC Watts (max): 20
INPUT SIGNALS VOLTAGE	
Siemens or other vendor cab signal system (ATC)	Nominal 32 VDC (range 28 to 40 VDC; max 40 VDC)
Siemens ACSES	Nominal 32 VDC (range 28 to 40 VDC; max 40 VDC)
Wabtec® I-ETMS™	Nominal 32 VDC (range 28 to 40 VDC; max 80 VDC)
Alstom®/ GE® ITCS®/X-ITCS®	Nominal 32 VDC (range 28 to 40 VDC; max 80 VDC)
<i>NOTE: Spare input available if Siemens ATC/ACSES are combined prior to MPBI</i>	
OUTPUT SIGNALS VOLTAGE	
Single Penalty Brake	Nominal 32 VDC (range 28 to 40 VDC; max 80 VDC) when cutout

Environmental Data

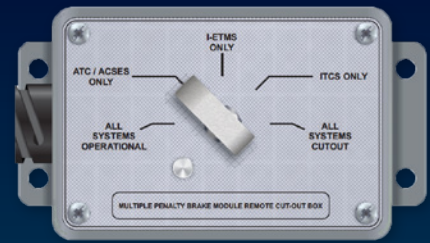
Specification	Parameters
Operating Temperature	-40 °F to +158 °F (-40 °C to +70 °C)
Storage Temperature	-67 °F to +203 °F (-55 °C to +95 °C)
Humidity (Maximum)	20% to 80% non-condensing

Ordering

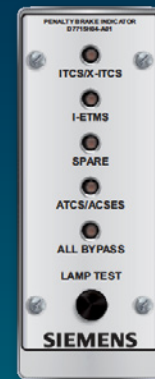
To Order Call	Specify
1 (800) 793-7233	Assembly Number



Multiple Penalty Brake Cutout Switch
(Assembly No. NYK:D7715H03-A01)



Penalty Brake Indicator
(Assembly No. NYK:D7715H04-A01)



Multiple Penalty Brake Interface Module
(Assembly No. NYK:D7715H03-A01)



NOTE: Custom Aspect Display Unit for specific applications available (not shown) Please contact us for details. Actual unit selected may vary in mounting and features.

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