

IBE-1000™ Intelligent Bus Encoder

Universal Interface Adapter for CS-Bus™ Shading and Lighting Controllers

0-10v dimming Panel Compatible-
Appears as Advance Mark^R 7
Dimmable Ballast

Screen-Trigger Interface (STI)

Dual Dry-Contact Interface



Powered from CS-Bus™

Small Form Factor Device
Can be Integrated Easily

Compatible with Lighting Panels
Manufactured by Lutron,
Vantage and others

Product Description

Description

The IBE-1000™ is a standalone, intelligent interface adapter that can generate lighting control as well as motor/shading control commands for CS-Bus™ Controllers from external triggers including dry contact closures, screen trigger interfaces and 0-10v dimmable Fluorescent dimming panels. This ingenious device enables non-computer type peripherals and lighting panels effectively to control CS-Bus™ equipment (lighting control and motor/shading products).

Operation

The IBE-1000™ operates on analog 0-10v (Class 2 type) regulated levels supported by third-party equipment as well as dry contact closures and low-voltage output triggers (STI). In the case of the 0-10v feature, the voltage level between the min/max levels determines the command transmitted onto the CS-Bus™. Other inputs provide two selectable commands (i.e. up/down, on/off, preset 1, preset 2, etc.).

Easy Setup and Configuration

Simply plug the IBE-1000™ into any Converging Systems' CS-Bus™ network up to 4000 feet from a compatible Intelligent Lighting or Motor Controller and built-in Plug-n-Play functionality automatically generates appropriate CS-Bus™ commands depending upon observed state changes from supported interfaces/triggers.

Applications

Over thirty lighting control systems in the field today support 0-10v dimmable Fluorescent ballasts such as the Philips Advance Mark^R 7 ballast as well as many other compatible ballasts. The IBE-1000™ emulates these types of ballasts, and permits virtually any existing lighting and automation system to be able to control CS-Bus™ lighting and motor/shading control technology similarly without replacing equipment. Other inputs allow triggering from projectors, doors, push buttons, relays, AV equipment, etc.

Features

- CS-Bus™ control accessory
- Provides compatibility with virtually any non-computer control device
- 0-10v dimmable Fluorescent ballast interface (configurable voltage range)
- Dual dry-contact interface
- Screen Trigger Interface for AV equipment
- Preprogrammed lighting and motor settings
- Remote configuration available through e-Node™ and Pilot application software
- Can be located up to 4000' away from CS-Bus™
- CS-Bus™ powered-no need for separate power

Specifications

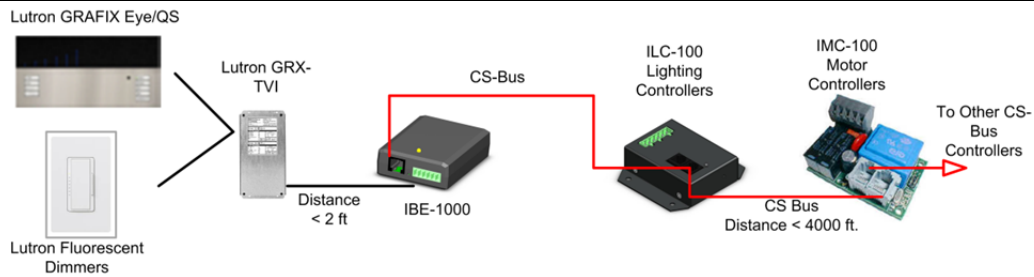
Feature	Detail
Multi-functional interface adapter/CS-Bus encoder	-Provides compatibility for CS-Bus™ controllers with third-party (i) 0-10 V DC compatible lighting panels, (ii) dry contact, or (iii) STI triggering. -Build in microprocessor accurately maps incoming voltage levels or triggers to CS-Bus compatible bus commands (lighting or motor)
0-10v input triggers	Provides a 10V supply which is sunk by third-party interface adapters such as the Lutron GRX-TVI or Vantage LVOS compatible with Advance Mark 7 ballasts.
Dual Channel Dry Contact Interface	Detects opens and closes on dual channel dry contact interface
Screen Trigger Interface	Detects Screen Trigger Interface (STI) levels from 1-30V DC
Network Bus Type	One RJ-25 for CS-Bus™ or RS-485 communication
Lighting Control Modality	Maps incoming voltage levels or triggers to specific <i>lighting</i> control specific CS-Bus™ commands (factory default)
Motor Control Modality	Maps incoming voltage levels or triggers to specific <i>motor</i> control specific CS-Bus™ commands (field selectable)

Feature	Detail
Trigger Input Connector Pin Out	-0-10V DC Channel A: pins 3(+) 10ma Source 0-14V/10ma sink 1.5V-14V DC -STI Channel B pin 4(+) -Dry Contact Channel C pin 5 (+) -Dry contact Channel D pin 6 (+) Note: Autosensing circuit selects last active trigger with a state change.
Power Requirements	-Self powered from DC voltage available on standard CS-Bus™ network lines (as well as commonly available RS-485 bus lines)
Operating Conditions	For indoor use only, 32-130° (0-54°C) less than 90% RH, non condensing
User Interface	Discovery Button (for network identification)
Size	3.06" x 2.25" x 0.875" (77.72 mm x 57.10 mm x 22.23 mm) 1.7 oz. (0.05 kg)
Enclosure	Molded plastic enclosure
Manufacturing	Made in the USA

*As factory (alternative) option, the device can connect to a 0-10v current sourcing device compatible with ESTA E11.3, (5 ma)

Overview

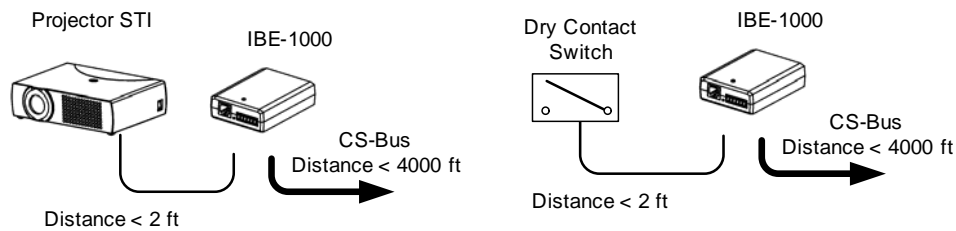
Wiring



STI Interface (or 0-10V DC I/F)

Dry Contact Interface

Alternative Application



Software Commands

Operation

