



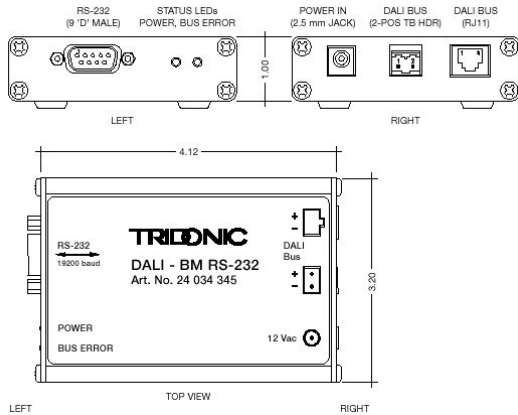
Specialized Lighting Solutions, Inc.

DALI-BM RS-232 Serial



Electronic digital interface for DALI ballast

DALI-BM RS-232 Serial Interface



The DALI-BM RS-232 with integral DALI bus power supply allows a host computer or personal organizer, through its RS-232 serial port, to control DALI ballasts and other load devices on a DALI (Digital Addressable Lighting Interface) bus and to receive status back from those devices. To accomplish this, the Busmaster provides two major functions: a current limited dc power supply to power the DALI bus, and a isolated communications interface that

converts the host's RS-232 level signals to DALI bus signal levels and simultaneously isolates the host computer/controller from the DALI bus wiring.

Features

- Control and monitor a single DALI communications loop (up to 64 ballasts)
- Digital two way communications with RS-232 serial device

- Power and signal LED's for easy indication of operating status
- Isolated 9-pin serial communications port (19.2 kb/sec)
- DALI communications compatible (1200 baud / Manchester coded)
- RJ-11 or removable terminal block for quick DALI loop connection
- Weight: Approximately 6.9 oz (196 g)

Type	DALI-BM RS-232		
Order #	24034345		
Electrical Supply	line voltage (external wall transformer)	VAC	110-130
	frequency	Hz	60
Input	supply	VAC	12
	RS-232	-	1
Output	single DALI bus	-	Up to 64 DALI devices
	voltage	VDC	12.5-15
	current limitation	mA	250
	max. load current	mA	150*
Connection	in	-	RS-232
	out	-	RJ-11 or screw connector

* for special application loading please contact manufacturer.

Accessories

Order #	Type	Description
24034351	DALI PS	Power supply for DALI-BM, in: 120 V 60 Hz 10 W, out: 12 VAC 500 mA
24034364	DALI-CA	Cable RS-232 to DALI-BM, 10' long



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Connectors and Connection Location

The Busmaster has four (4) connectors: 12 VAC connects to an external, usually wall-mounted, 12 VAC power transformer; RS-232 provides RS-232 communication to a host computer; and two (2) DALI Bus connectors for connection to the DALI bus (one connector is a 2-pin removable terminal block, and the other is an RJ-11 4-pin "phone jack").

DALI Bus (RJ-11 Phone Jack) connection

This industry-standard 6-position "phone jack" duplicates the function of the DALI Bus removable terminal block. This connector is not in any way associated with telephone service! Pins 1 through 3 are tied together in this connector, as are pins 4 through 6.

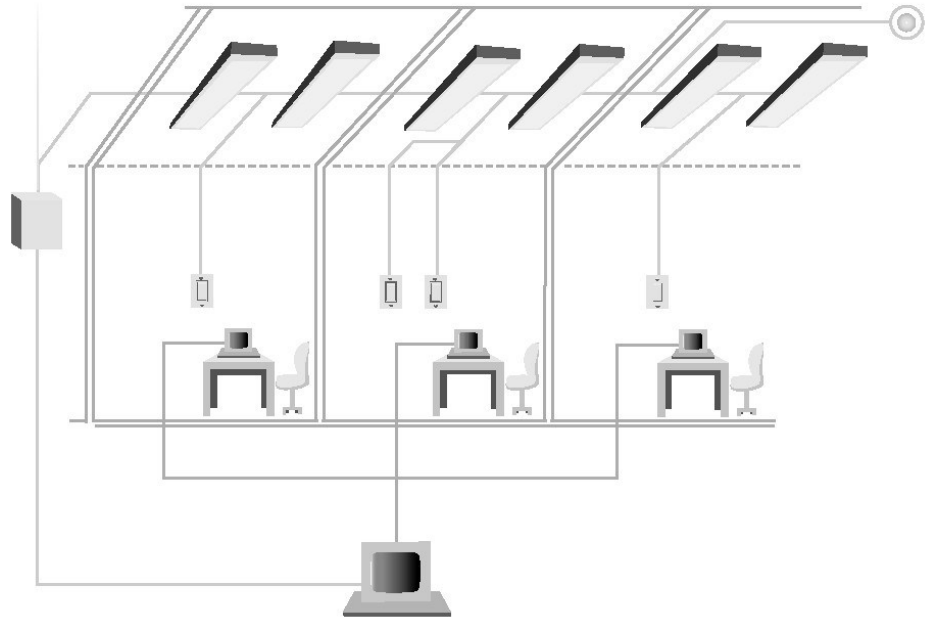
RS-232 connection

RS-232 provides RS-232 communication with the host computer and is a 9-pin 'D' male connector with jack sockets on the Busmaster. The mating connector is the industry standard 9-pin 'D' female (e.g. Cannon DE9S). The RS-232 connector is configured as DTE (Data Terminal Equipment) to facilitate connection of the Busmaster to a [DTE] host computer through a *null modem* 9-conductor female-to-female cable assembly that is available as an accessory.

Mounting and Environment

The Busmaster is designed to set on a shelf or desktop. An optional wall mount bracket (Article # 3009302) can be ordered for mounting the Busmaster to the outside of a 2x4 junction box. The unit should be mounted so the user can observe the LED status indicators located on the left (host RS-232 connector) end during use.

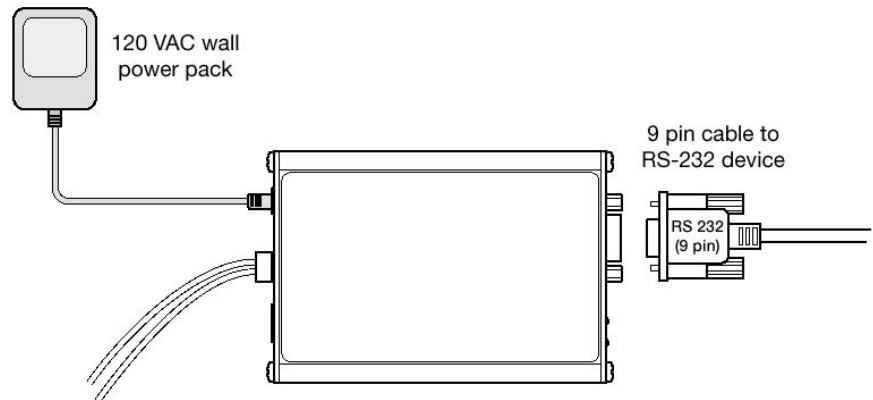
The Busmaster has been designed for use in an environmentally controlled office. It must not be exposed to the weather or used in an environment where humidity is condensing on it. The unit is not sealed against dirt, dust, or moisture.



DALI Bus (Removable Terminal Block) connection

This 2-position removable terminal block provides connection to the DALI bus.

Pin	Function – direction relative to Busmaster
1	DA- – out – DALI bus power return (-) and communication
2	DA+ – out – DALI bus power (+) and communication



to DALI bus (2 wire #18 AWG)
using terminal connector or RJ-11 jack

Wiring diagram of Busmaster

Indicators and Indicator Location

The Busmaster has two (2) LED indicators located on the left end panel: POWER (on when power is applied) and BUS ERROR (flashes when a bus error is detected – bus shorted or communication timing error).

Dimensions

Approximately 4.12" long x 3.20" wide x 1.00" thick (105 mm x 112 mm x 30 mm). Connectors extend from the end panels slightly and thus increase length a bit; the rubber feet add approximately 0.12" to unit thickness. See attached figures.

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