

Two-Channel BioLED Drivers with Manual and Trigger Mode Input Controls

Part Numbers: BLS-1000-2, BLS-3000-2, BLS-13000-1

FEATURES

- Dual Control Modes:
manual or trigger-input
- High Frequency response
- Capable of driving variable loads

APPLICATIONS

- Microscopy
- Lighting
- Machine Vision
- Display
- Semiconductor equipment
- Testing instruments
- Medical instruments
- Optogenetics

PRODUCT DESCRIPTION

Mightex BLS-1000/3000-2 and BLS-13000-1 LED Controller are designed to drive Mightex LED sources. Except for the BLS-13000-1, The controllers have two operation modes:

Manual Mode: User can control the output current by the knob manually.

Trigger Mode: Analog input signal to fully control the output current.

The control mode is selected with a slide switch on the front panel, the factory default is "Manual" mode. the controller also provides a Maximum Current Selection DIP switches on rear panel which allows user to set the maximum current of the channel to **500mA**, **750mA** and **1000mA**, for BLS-1000-2, and 1,000/2,000/3,000mA for BLS-3000-2, respectively. the factory default is set to 500mA for BLS-1000-2 and 1,000mA for BLS-3000-2, respectively. BLS-13000-1 has only one maximum current setting - 13,000mA. .

When controller is set to "Trigger" mode, the output current is fully controlled by the input analog signal (0-5V).

ELECTRICAL SPECIFICATIONS

Parameters	Value			Unit
	BLS-1000-2	BLS-3000-2	BLS-13000-1	
DC Input Voltage	9 ~ 12*	9	48	V _{dc}
DC Input Current	> total/combined channel currents**			mA
Channel Driving Voltage (Max)	V _{dc} - 4.5	V _{dc} - 4	5.5	V
Current Accuracy	±3%			mA
Channel Driving Current	0 ~ 1,000	0 ~ 3,000	0 ~ 13,000	mA
Channel Output Power Limit	< 20	< 15	< 72	W
Channel Frequency Response	< 100	< 50	< 3	KHz
External Analog Input	0 ~ 5			V

*. When V_{forward} of LED load is more than 8V, 24V DC input might be used.

**The Input current should be more than the sum of output currents of two channels.



BLS-1000-2 (Front Panel)



BLS-1000-2 (Rear Panel)

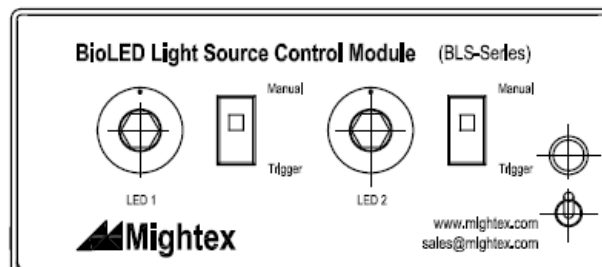


BLS-13000-1 (Front Panel)

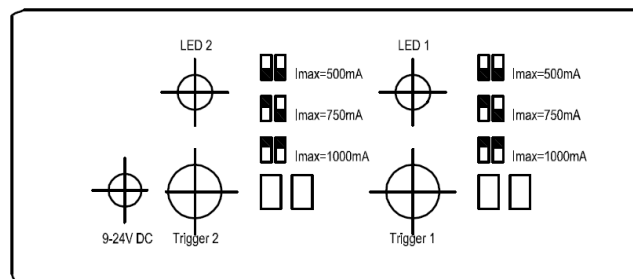


BLS-13000-1 (Rear Panel)

FRONT PANEL AND REAR PANEL:



The Front Panel has power switch and power indicator. For each channel, it has a slide switch (for selecting Manual or Trigger mode) and a turning count dial (for adjusting output current).



The Rear Panel has a DC input plug (9 ~ 24V DC). For each channel, it has a BNC connector for external trigger/ analog voltage signal, a two-pin LED aero connector, and a pair of DIP switches to set the maximum current of the channel.



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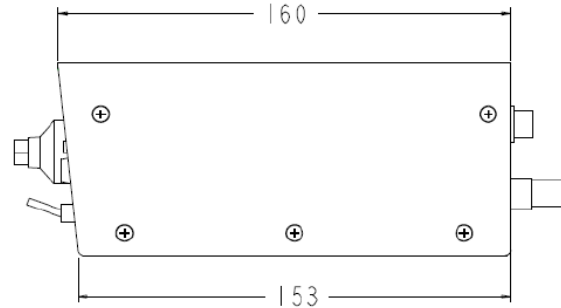
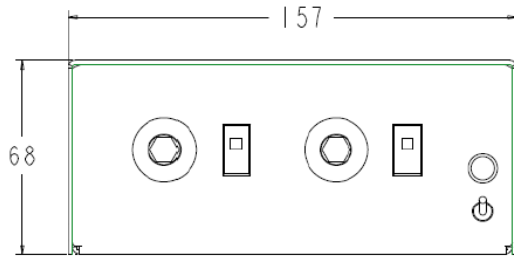
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MECHANICAL SPECIFICATION

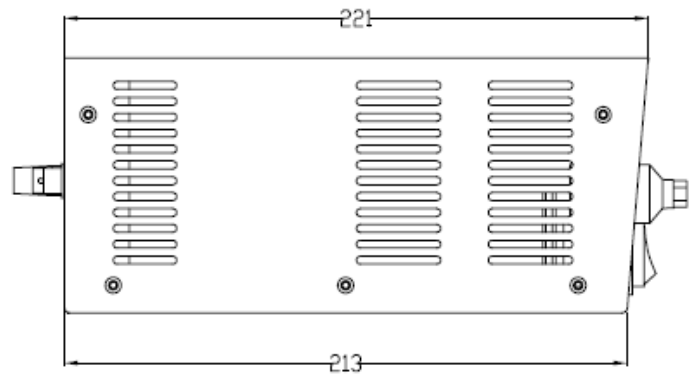
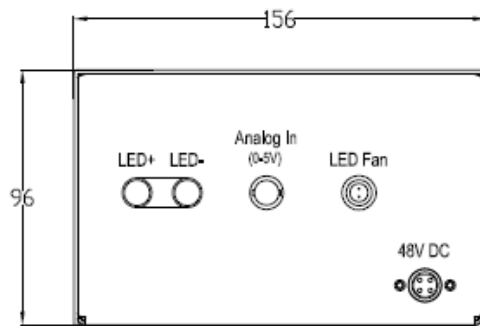
Dimension 150mm (L) x 152mm (W) x 68mm (H)

Weight

INSTALLATION DRAWING



BLS-1000-2 / BLS-3000-2



BLS-13000-1

With a world-class OEM design team, Mightex offers a broad range of customized solutions in order to meet individual customer's unique requirements. Please call 1-416-840-4991 or email sales@mightex.com for details.