Performance Controls

Big STIK

Features

- No derating. 100% full duty cycle for 10 and 20 Amp units
- Overheat and over current protected
- Convection cooled with thermal sensor
- Dims standard or low voltage incandescent, quartz sources within the same enclosure
- 3 Ø power input
- Class II low voltage control circuitry in DMX-512A format
- LED indicators
- Assignable worklight control
- Automatic 50/60Hz Detection
- UL listed

Description

Save Space and Money

The Big STIK is a portable, affordable, high performance dimmer system. With its space saving design, the Big STIK offers the best value in the market. Power this flexible dimmer system with a 3 Ø 20 Amp twist lock connection or hardwire it for permanent installation. Weighing less than 50 pounds, it can be mounted vertically or horizontally in nearly any location. Its lightweight design and unique mounting hardware allows the Big STIK to fit into any environment.

The Big STIK requires only a 3 Ø connection, a DMX source, and lighting instruments for operation.

Inputs and Outputs

The Big STIK accepts the industry standard 5 pin XLR style DMX connector for optically isolated signal inputs. An LED indicates the presence of a DMX signal.

The Big STIK is furnished with a DMX output connector that allows the control signal to "daisy chain" through any additional STIKs or other remote devices.

Power a Variety of Loads

The Big STIK is capable of driving incandescent and quartz loads. It even controls low voltage lighting fixtures. Overload conditions are protected by circuit breakers at the outlets to avoid common failures.

Create the Look

With the DMX controller on line, the Big STIK responds to the commands of the signal generator, providing smooth, even lamp output with no flickering or stepping.

Order Information

Colors
- ❒ Black (standard)
- ❒ White
- ❒ Custom colors available

Phase
- ❒ 3 Ø

Output Connectors
- ❒ Duplex Nema 5-20R (Parallel Blade)
- ❒ Nema L5-20R (20A twist lock)
- ❒ Grounded Stage Pin Output Connectors

Input Connectors
- ❒ 20A 120/208V 3 Ø twist lock
- ❒ Terminal Block

Mounting
- ❒ Ceiling/wall
- ❒ Single pipe
- ❒ Pipe clamp

Optional
- ❒ RDM Compatible

Configurations
- ❒ 6 x 1.2 kW (Standard)
- ❒ 3 x 2.4 kW

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Electrical Characteristics

Power Requirements
120/208 VAC, 3 Ø automatic 50/60Hz detection operating

Environment
Temperature range: 32° F. (0° C) to 104° F. (40° C). Humidity range: 0% - 90% non condensing

Dimmer Capacity
6 x 1.2 kW or 3 x 2.4 kW

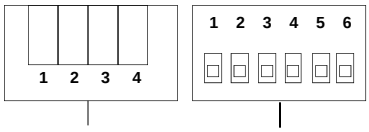
Load Types*
Incandescent, quartz lamps, and electronic low voltage fixtures.

Rise Time
325µs 10-90%

Switch Type
SCR solid state relay

*Designed for dimmable electronic low voltage fixtures. Consult factory for additional compatibility information.

Worklight Assignment/Panic



2– Termination Resistor
3– Worklight Switch
4– Panic Switch

Dimmers 1-6

Mechanical Characteristics

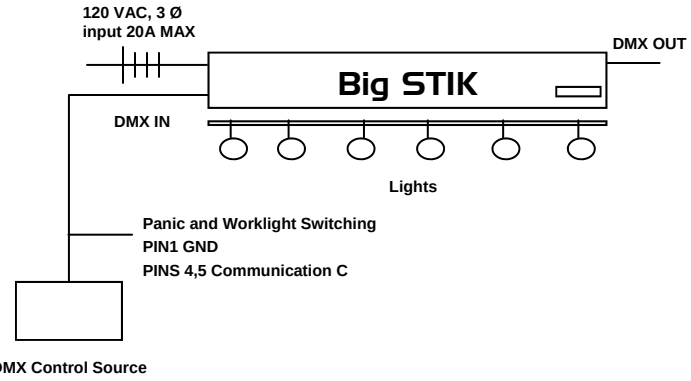
Physical
4.8" x 3.5" x 78" (12.192cm x 8.89cm x 198.12cm)

Weight
41 lbs. (3 x 2.4kW version) 46 lbs. (6 x 1.2kW version)

Material
Panel Grade 16ga. (.059") steel

Finish
Paint, black polyurethane enamel (standard) white or custom color (optional)

System Riser/Contractor Points



Specifications

1. The Big STIK shall be designed to dim standard quartz, incandescent and electronic low voltage sources.
2. The enclosure shall accommodate 6 x 1.2 kW or 3 x 2.4 kW dimmers.
3. The Big STIK dimmer shall be convection cooled. Each dimmer module will include a thermal sensor that will shut down the dimmer if the heatsink temperature exceeds 185° F (85° C).
4. The dimmers shall use an encapsulated pair of silicon controlled rectifiers to provide symmetrical AC output to the load at any output level from OFF to FULL intensity. The entire load of the dimmer will be carried solely by the silicon controlled rectifiers. The silicon controlled rectifier is inherently designed in such a manner that it is impossible for any spurious voltage to be transferred to the control wires and damage low voltage electronics.
5. Each module shall have a toroidal, copper wound, iron core high performance choke. Performance rise time shall be no less than 325 µS. All measurements shall be from 10% to 90% at full load.
6. The maximum heat loss for each 2.4kW dimmer shall be no greater than 48 watts per dimmer or 100 BTU's per hour per connected kW of load.
7. The dimmers shall operate over an input voltage range of 90 to 140 VAC per phase. The dimming system will operate from a 3 Ø input.
8. Incandescent dimmers shall function properly with any load from 25 watts to rated capacity.
9. The dimmer will be controlled by a standard USITT DMX-512A control signal.
10. The assignable work light function shall be remotely controlled via wired remote on/off controls.
11. All dimming functions shall be microprocessor controlled with no internal trim potentiometers or other adjustments.
12. All control electronics shall be incorporated on a single double sided FR4-G10, U.L. Listed, printed circuit board.
13. The entire assembly is U.L. Listed.
14. The Big STIK shall be manufactured by Electronics Diversified, Inc., Hillsboro, Oregon 97124.