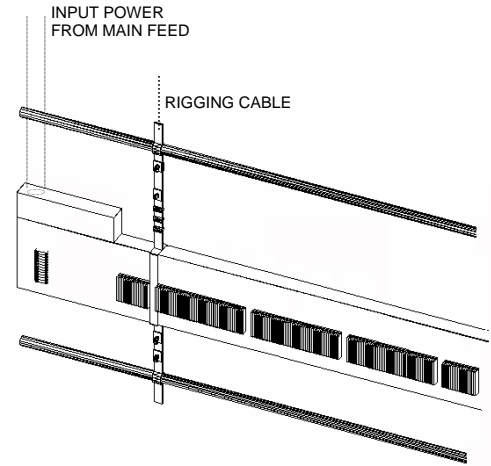


### Features

- No derating, 100% full duty cycle for all models: 10 and/or 20 Amp units
- Overheat and overcurrent 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
- Three digit dimmer addressing
- LED indicators
- Worklight control
- UL listed
- Up to 32 modules per unit
- Panic function



### Save Space and Money

The RB STIK™ is a self contained connector strip/ dimmer system. This streamlined dimmer weighs less than 10 pounds per linear foot and can mount vertically or horizontally in any location. All the RB STIK™ needs is a 3 Ø connection, a DMX source, and lighting instruments and it is ready to go.

### Connect The Signal

The RB STIK™ accepts the industry standard 5 pin XLR style DMX connector for the optically isolated signal input. When connected with a signal present, an LED indicator illuminates. The RB 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 the Loads

Connect any incandescent or quartz load into any outlet. Overload conditions are protected at the outlets to avoid common failures. The RB STIK™ even has the capability to control low voltage lighting fixtures. The RB STIK is available to handle up to 32 20 Amp loads in one enclosure. Each dimmer features a test switch in near proximity to the outlets for convenience.

### It's Flexible

The RB STIK™ offers the best value in the market by making the unit user friendly. The slim design and unique mounting hardware allows the RB STIK™ to fit into any environment.

### Create the Look

With the DMX controller on line, the RB STIK™ is ready to respond to the commands of the signal generator. The lamp output is smooth and even, without flickering or stepping.

## Ordering Information

### Color

- Black\*
- White

\* Standard  
Automatic 50/60Hz Detection

### Phase

- 3 Ø

### Configurations

- \_\_\_ Single 2.4 kW\*
- \_\_\_ Dual 1.2 kW

Maximum 32 dimmers

### Output Connectors

- Duplex Nema 5-20R (20A parallel blade)
- Nema 5-20R (20A parallel blade)
- Nema L5-20R (20A twist lock)

### Input Connectors

- 225 Amp max. terminal block

### Mounting

- Ceiling/wall
- Single pipe
- Double pipe
- Triple pipe

\* standard



Electronics Diversified, Inc.

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Product Datasheet

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### Electrical Characteristics

<b>Power</b>	120/208 VAC, 3 Ø Automatic 50/60Hz detection operating
<b>Environment</b>	Temperature range: 32° F. (0° C) to 104° F. (40° C). Humidity range: 0% - 90% non-condensing
<b>Dimmer capacity</b>	Up to 32 2.4 kW or 64 1.2 kW dimmers
<b>Load types</b>	Incandescent, quartz lamps, and electronic low voltage fixtures. <small>*Consult factory for additional compatibility information.</small>
<b>Rise time</b>	325µs 10 - 90%
<b>Switch type</b>	SCR solid state relay

### Mechanical Characteristics

<b>Physical</b>	4.8" x 3.5" x 36" (+ 20" per 1-2.4kW or 2-1.2kW segment) (12.192cm x 8.89cm x 91.4cm (+ 50.8cm per segment))
<b>Material</b>	Panel grade 16ga. steel (.059")
<b>Weight</b>	approx. 7.7 lbs. per linear ft.
<b>Finish</b>	Paint, black polyurethane enamel (standard) White or custom color (optional)

### Specifications

1. The enclosure shall accommodate up to 32 ( single 2.4 kW or dual 1.2 kW) dimmers.
2. The *RB STIK™* shall be designed to dim standard quartz or incandescent and electronic low voltage sources.
3. The *RB 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). Dimmer heatsinks without an individual thermal sensor are not acceptable.
4. The dimmers shall use an encapsulated pair of silicon controlled rectifiers to provide symmetrical alternating current 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. Power for the system shall be 120/208VAC with 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 worklight function shall have wired remote dimmer testing.
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 RB STIK shall be manufactured by Electronics Diversified Inc., Hillsboro OR 97124

### System Riser/Contractor Points

