SCRimmer STIK

User Manual
Installation

Location: Although SCR dimmers are very efficient, solid-state dimmers still generate heat. Allow adequate space around the enclosure for ventilation. Allow adequate space between the lighting fixtures and the Stik enclosure.

Mounting: The unit may be mounted to a pipe with standard fixture clamps, mounted to a wall with the wall mounting brackets, or suspended with a pipe using the pipe mounting brackets.

WARNING:
The maximum working load using the pipe mounting brackets is 100 lbs. When using the pipe clamp mounting bracket, use a safety cable. If you are unsure about a mounting method, contact a qualified rigger.

To mount the Stik, attach the desired bracket to the back of the unit with the supplied screws. The pipe clamp mounting bracket may be attached so the Stik is mounted above or below the pipe. The wall mount bracket may be used for wall or ceiling mount.

Loads: This unit is designed to dim incandescent light sources, low voltage light sources with electronic or magnetic transformers only.

NOTE: Only dimmable electronic transformers may be used. Electronic transformers vary greatly by manufacturer. Some low voltage fixtures may flicker when dimmed. If this happens, try a different type of transformer or fixture.

Power Source: This unit is designed to operate on 120 volts, 50 or 60 Hz AC power. An internal jumper may be changed to allow operation at 240 VAC. This dimmer must be connected to a suitable branch circuit not exceeding 20 amps.

WARNING:
DO NOT CONNECT THE STIK TO OTHER THAN THE SPECIFIED VOLTAGE.

DO NOT CONNECT THE STIK TO THE OUTPUT OF ANOTHER DIMMER.

DO NOT EXCEED THE BRANCH CIRCUIT BREAKER RATING OF THE CIRCUIT.

Supply Cord: The dimmer is supplied with a Type SO #12/3 AWG supply cord. NOTE: Only use 12 gauge or larger extension cords with this unit. Using smaller gauge cords may cause overheating of the power cord.

WARNING:
MAXIMUM ambient operation and storage environment for this equipment is 104 F (40C), with 90% humidity, non-condensing. This product is protected by an internal thermal sensor. If the unit overheats, it will automatically shut itself off. It will come back on after the unit has cooled down. To prevent overheating, allow adequate air circulation between the unit and lighting fixtures, do not operate in direct sunlight or in high ambient temperatures. The external case of the Stik may get hot to the touch after operating at maximum capacity over an extended period of time. This product is designed for indoor use only. Do not expose this unit to rain.
### Operation

#### Diagram of Stik with PBG connectors

1. **DMX Input:** A 5 pin Opto-Isolated XLR connector on the end of the Stik. The input connector is mounted adjacent to the power cord.

2. **Power Cord:** With strain relief cable clamp.

3. **Load Connectors:** Varies with the type of connectors ordered.

4. **Fuse Holders:** Each dimmer in the Stik has a fuse to provide supplemental protection. These fuses will protect the dimmer in the event of a short circuit or overload condition. Replace with 6.25A 250VAC ceramic slow blow fuses.

5. **Last Stik Switch:** When on, this terminates the DMX-512 data line. If the Stik is at the end of a cable, this switch should be on. Only the last Stik in the DMX-512 data link should have this switch set to the “On” position. A yellow LED indicates when the termination is active.

6. **Start Address:** Three rotary switches to select the dimmer starting address. Set the switch from 001 to 509 to select the desired starting address for the first dimmer in the Stik. (Address for dimmer number 1) The remaining three dimmers will follow in sequence, one after another. Setting the starting address to 000 will disable the DMX-512 input.

7. **LED Indicators:** Power, DMX, and Overtemp LED indicators.

8. **Test/ Focus:** These buttons operate in two modes. If the Stik is connected to a valid DMX-512 transmission, the button cause the corresponding dimmer to fade to 100%, the LED above the button will flash to indicate that the dimmer is in test mode. Pressing the button again will cause the dimmer to return to the current DMX-512 level. If the dimmer is left in test mode, it will time-out after about 2½ minutes, and the dimmer will revert back to the current DMX-512 level. When no valid DMX-512 transmission is being received, the Test button may be used to manually adjust the output level of the dimmer. Pressing the button will raise or lower the dimmer output. Multiple presses may be used to set the dimmer to the desired level. The LED above the button will show the approximate dimmer output. As long as no DMX-512 signal is being received, the dimmer will stay at the desired level.

9. **DMX Output:**

   The output connector may be used to string additional Stiks together. All 5 pins are connected between the input and output connectors. The pin-out is as follows:
   - 1 - Signal Ground
   - 2 - Data-
   - 3 - Data+
   - 4 - Not used
   - 5 - Not used

   Note: DMX output should not be used when the Last Stik switch (#5) is in the “On” position.
Troubleshooting

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Possible Cause</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nothing works, Power indicator is off.</td>
<td>No AC power.</td>
<td>Check incoming power source, or breaker.</td>
</tr>
<tr>
<td>Nothing works, Power indicator is off, incoming power is good.</td>
<td>Bad control board, or blown fuse. Stik plugged into wrong voltage.</td>
<td>Check internal fuse. Send Stik in for repair. Make sure the Stik is set to the same source as the power source.</td>
</tr>
<tr>
<td>DMX light won’t come on.</td>
<td>No DMX-512 source. Bad DMX cable Invalid Dimmer Address</td>
<td>Check DMX-512 source. Check Cable. Set address switch to proper starting address of 001 to 512.</td>
</tr>
<tr>
<td>A dimmer won’t come on.</td>
<td>Dimmer level set to zero. Bad lamp / fixture Blown fuse.</td>
<td>Make sure the control console is sending a valid level. Check lamp or fixture. Check dimmer output fuse.</td>
</tr>
<tr>
<td>A dimmer won’t go out.</td>
<td>Blown SSR.</td>
<td>Replace solid state relay.</td>
</tr>
<tr>
<td>Output fuses keep blowing.</td>
<td>Overload. Wrong fuse.</td>
<td>Do not exceed 600 watts per output. Use 6.25 Amp 250VAC ceramic slow-blow fuses.</td>
</tr>
<tr>
<td>Lamps flicker or flash.</td>
<td>Stik plugged into a dimmer. Bad DMX cable</td>
<td>Plug the Stik into a standard power source, not the output of a dimmer. Check DMX cable.</td>
</tr>
</tbody>
</table>

Replacement Parts

Replacement parts are available from EDI or your local dealer.

<table>
<thead>
<tr>
<th>EDI Part Number</th>
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<tbody>
<tr>
<td>1. 019-5502</td>
<td>Pipe Mounting Kit</td>
<td>6. 108-0057</td>
<td>Choke, Toroid (4)</td>
</tr>
<tr>
<td>2. 019-5501</td>
<td>Wall Mounting Kit</td>
<td>7. 346-1021</td>
<td>Choke cover (not shown)</td>
</tr>
<tr>
<td>3. 019-5503</td>
<td>Pipe Clamp Mounting Kit (C-clamp not included)</td>
<td>8. 670-2352</td>
<td>Circuit board, power (2)</td>
</tr>
<tr>
<td>4. 017-4221</td>
<td>5-pin XLR Output connector</td>
<td>9. 017-4222</td>
<td>Solid State Relay (SSR) assembly (4)</td>
</tr>
<tr>
<td>5. 133-0030 132-0138 133-0032</td>
<td>PBG Duplex Receptacle, 15A (2) GSP Grounded Stage Pin (4) (optional) GTL Grounded Twist Lock (4) (optional)</td>
<td>10. 670-2351</td>
<td>CPU circuit board</td>
</tr>
<tr>
<td>11. 352-0031 159-0028</td>
<td>Fuseholder insert with...</td>
<td>12. 110VAC Input Power Cord</td>
<td></td>
</tr>
</tbody>
</table>

pipe Mounting Kit
Wall Mounting Kit
Pipe Clamp Mounting Kit (C-clamp not furnished with kit)
Service

EDI offers a 24 hour Service / Support Network.
For technical questions about this product or operational assistance, ask for Customer Service at: 1-800-547-2690
You may communicate by FAX: 1-503-629-9877
After Hours Emergency contact: 1-503-645-5533
Ask for Emergency Assistance.
Internet Address: www.edionline.com

If your Stik needs repair, call 503-645-5533 for a Return Materials Authorization number, and a shipping address will be furnished.

Electronics Diversified, Inc.
1675 NW Cornelius Pass Rd.
Hillsboro, OR 97124