DLS Series Analog Dimmers

PART No. | DESCRIPTION | SPECIFICATION
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DLS-4500-120 | • 4 channel x 500 W Dimmer or switch pack  
• Dimmer or switch selection with adjustable Switch level  
• Universal dimmers for LED, Fluorescent, Low-Voltage Transformers  
• 120VAC  
• Suitable for dimming Triac dimmable LED & CFL Bulbs | • Heavy-Duty Outputs, Dims 4 x 4 AMP loads  
• (4 dimmers x 500W @120VAC).  
• Active DC component protection for inductive loads  
• Suitable for inductive Loads at Full Rating  
• 0-10V analog lighting controllers compatible

Features
- Designed for Architectural dimming from standard 0-10V wall dimmers or controllers
- Use with Dialog WDB-3314

Operation
Enclosure Installation
Surface mount the dimmer pack in a well ventilated area where the ambient temperature does not exceed 104° F for full load operation. Allow 2" of side clearance for proper air circulation and servicing. Installation clearance shall meet local and/or NEC code requirements. Enclosures may be attached to the wall or other mounting surface by holes in the heat sink flanges. Refer to the drawings below [FIGURE 3] for the correct dimensions. Conduit shall be pulled to the top of the dimmer packs.

Table 1 - Terminals Definition

<table>
<thead>
<tr>
<th>NAME</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Output Of Solid State Relay #1</td>
</tr>
<tr>
<td>2</td>
<td>Output Of Solid State Relay #2</td>
</tr>
<tr>
<td>3</td>
<td>Output Of Solid State Relay #3</td>
</tr>
<tr>
<td>4</td>
<td>Output Of Solid State Relay #4</td>
</tr>
<tr>
<td>H</td>
<td>Hot Line Feed For Relays 1, 2, 3 &amp; 4.</td>
</tr>
<tr>
<td>N</td>
<td>Neutral Bus Connections.</td>
</tr>
</tbody>
</table>

Table 2 - Absolute Maximum Electrical Ratings

<table>
<thead>
<tr>
<th>Relay Load Current</th>
<th>1 to 4</th>
<th>4Amps.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Current</td>
<td>H</td>
<td>20 Amps.</td>
</tr>
<tr>
<td>Input Voltage</td>
<td>H</td>
<td>120 VAC</td>
</tr>
</tbody>
</table>

Dimensions & Mounting
- Compact Size, 11.25" H x 4.5" W x 3.75" D
- Wall-Mount aluminum enclosure

Preliminary data subject to change without notice
Features

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Figure 3 - Dimensional Diagram

Top View

Low Voltage Ports

Bottom View

1/2" and 3/4" Conduit Knockouts

2.4" (61 mm)

1.1" (28 mm)

4.6" (117 mm)

2.4" (61 mm)

3.2" (82 mm)

1.5" (46 mm)

4 channel 0-10V dimmer board
Logic control firing board

INT-AN04

DLS-4500

0-10V/DC
5 x 2 Amp Dimmer Pack

Control Indicators

0-10V Control Input Connectors

(LDM) Load Driver Module

DLS-4500 Front Cover

Preliminary data subject to change without notice
DLS-4500 General Wiring Instructions

**Wiring Notes**

- Do not exceed 480 W (4 Amps) per each dimmer @ 120VAC.
- All wiring from control to dimmers is low voltage (NEMA Class 2).
- DLS-4500 dimmer packs may be fed by one 20 A (maximum) branch circuit and may have up to four separately dimmed loads.
- Caution: Do Not attempt to parallel outputs to increase capacity.
- Installations must conform to local and/or NEC code requirements.
- Each load must have its own Neutral wire for full load operation.
- All line voltage wires must have copper conductors of adequate gauge with 90°C wire insulation.
- Power each load directly before connecting it to the DLS-4500 to ensure proper wiring.

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Figure 5 - DLS-4500 Typical 120 VAC Wiring

**CAUTION:**

Fuses 1 to 4 are 5 Amps/250V; quick blow to be replaced by certified electrician.

For Full Load Operation Use:
- #12 AWG copper conductor wire for line & neutral feeds.
- #14 AWG copper conductors to each load.
- Follow NEC requirements.
- Max. Per Load: 4 Amperes (480 W at 120 VAC).