Douglas Lighting Control’s® Reverse Phase Dimmer converts a 0-10V dimming signal to an Electronic Low Voltage (ELV) dimming output to control luminaires with ELV power supplies. One Reverse Phase Dimmer can control up to 4-channels of 300W loads at 120VAC. The Reverse Phase Dimmer accepts 4 x 0-10V inputs and 4 x fixed line voltages. Using the Reverse Phase Dimmer, lighting loads such as LED bulbs, fluorescent lighting fixtures and low voltage transformers can be dimmed from Douglas’ standard Lighting Control Panels or Dialog© Room Controller.

By using the Reverse Phase Dimmer, lighting loads which are not compatible with forward phase dimming modules can now be controlled. Compatibility with both Dialog Lighting Control Panels and Dialog Room Controllers make it an ideal solution for when dimming is required for line voltage lighting.

### Features
- 4 channel x 300 W dimmer or switch pack.
- Reverse phase, trailing edge, ELV
- Dimmer or switch selection with adjustable switch level.
- Universal dimmers for LED, fluorescent, low-voltage transformers.
- Simple to install and operate.
- Suitable for dimming LED and CFL bulbs

### ASHRAE 90.1 Compliant
- California Compliant

### Table: Part Number Description

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>DLS-RP-4300-120</td>
<td>0-10V Analog Control, Reverse Phase, Trailing Edge, 4 Channel x 300 W Dimmer &amp; Switch Packs, Analog 0-10V</td>
</tr>
</tbody>
</table>

![Diagram](image)
0-10V to Reverse Phase Dimmer Module

**Specifications:**

- **Outputs:** 4 x 300 Watts
- **Dimmer power specifications:**
  - 1 V = 0%
  - 10 V = 100%
- **Current draw:** 1 mA
- **Response range:**
  - 10 V analog signal from a sinking controller.

**Control Board:**

- **N 1 2 3 4**

**Inputs:**

- 0-10V Control Input connectors

**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>

**Dimensions:**

- 4.75 in [120.65 mm]
- 3.75 in [95.25 mm]
- 11.25 in [285.75 mm]

**Top View**

- 4.6 in [117 mm]
- 2.4 in [61 mm]
- 1.9 in [48 mm]
- 3.2 in [82 mm]
- 1/2 in and 3/4 in Conduit Knockouts

**Bottom View**

- Low Voltage Ports
- 0-10V Control Input Connectors

**Analog 0-10V Control Inputs**

- Control #1
- Control #2
- Control #3
- Control #4

**INPUT**

- 120VAC, 15A Max., 60Hz

**OUTPUT**

- 4 x 300W, 2.5A Max
- 0-10V analog signal from a sinking controller

**DIMMING**

- Current draw: 1mA
- Response range: 1V=0%, 10V=100%

**INSTALLATION**

- Do not attempt to parallel outputs to increase capacity
- Installation must conform to local and/or NEC requirements
- Each load must have its own neutral wire for full load operation
- All line voltage wires must be copper conduct of adequate gauge rated to a minimum of 90°C insulation
- Power each load directly before connecting it to the Dimmer Pack to ensure proper wiring
- #12 AWG copper conductor wire for Line & Neutral Feeds.
- #14 AWG copperconductors to each load.
- Follow N.E.C. requirements
- Max. Per Load: 2.5 Amperes (300 W at 120 VAC).

**ENVIRONMENT**

- Indoor, stationary, non-vibrating, non-corrosive atmosphere and non-condensing humidity
- Ambient operating temperatures: 32°F to 102°F (0°C to 38°C)
- Plenum rated

**WEIGHT**

- 2.124 lbs (0.963 kg)