SLD Smart-Dim Module Manual
Part Number: SLD-DIM1B

The SLD-DIM1B is a UL listed Class 2 LED dimming module that enables non-dimming DC power supplies to dim using a standard 0-10V dimming controller. It uses a high frequency 1kHz PWM output to dim the lights, ensuring that there is no visible flicker to the naked eye. The SLD-DIM1B provides smooth dimming from 100% brightness to completely off and many modules can be controlled by a single dimming controller. 0-10V dimming means that they can even be integrated into many commercial dimming systems or used with wireless dimming controllers. The small size makes it easy to include in a new installation or even retrofit into an existing junction box. It can be used with any Class 2 power supply, 8-30V DC.

Features
- UL Listed Class 2 dimming module.
- Enables 0-10V dimming of Class 2 DC power supplies.
- High 1kHz PWM frequency output to avoid visible flicker.
- Smooth dimming from 100% on to off.
- Fits into small spaces, including junction boxes.
- Handles up to 5A current, 8-30V DC.
- Can be controlled using widely available 0-10V dimmers and control systems.
- Typical efficiency of 97%.

Applications
- Architectural lighting
- Effect and contour lighting
- General illumination
- Warehouses
- Signage
- Strip Light

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## Specifications

<table>
<thead>
<tr>
<th>Part Number</th>
<th>SLD-DIM1B</th>
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</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>2.2” x 1.46” x 0.57”</td>
</tr>
<tr>
<td></td>
<td>56mm x 37mm x 14.5mm</td>
</tr>
<tr>
<td>Channels</td>
<td>1</td>
</tr>
<tr>
<td>Input Voltage</td>
<td>8-30 Volts DC</td>
</tr>
<tr>
<td>Max. Current Load</td>
<td>5A</td>
</tr>
<tr>
<td>Max. Output Power</td>
<td>60W/120W (12V/24V)</td>
</tr>
<tr>
<td>PWM Frequency</td>
<td>1000Hz</td>
</tr>
<tr>
<td>Dimming Control</td>
<td>0-10V (2.7mA max)</td>
</tr>
<tr>
<td>IP Rating</td>
<td>IP65</td>
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</tbody>
</table>

## Wiring Diagram

![Diagram](image)

## Wiring Instructions

1. Ensure that the power supply is turned off.
2. Connect power supply positive and negative outputs to the red and black wires on the left side of the SLD-DIM1B.
3. Connect the LED load positive to the yellow wire and negative to the blue wire.
4. Connect the 0-10V dimming control to the grey and purple wires on the right side of the SLD-DIM1B per the dimming control instructions.
5. Ensure that the power supply is the same voltage as the LED load and turn-on power.