Environmental Lights.com™

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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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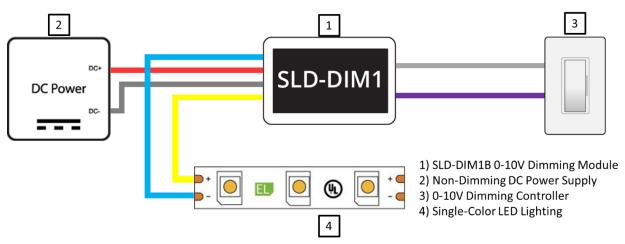
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Specifications

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



Wiring Diagram



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.