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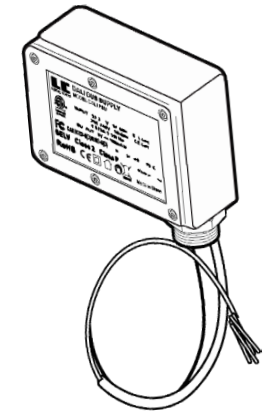
CE

This device complies with the essential requirements and other relevant requirements of CISPR 24, CSIPR 32 in the EMC Directive 2004/108/EMC and is compliant with the following standards: EN61000-6-2, EN61000-6-4. In addition, the device is compliant with the IEC 61347-2-11 safety standard for Lamp Control gear.

Model: DALI PSU-6



DALI Bus Power Supply (DALI PSU-6) Install Guide



DALI Bus Power Supply Unit (DALI PSU-6)

Supplemental Components

- Nipple Mount External DALI Bus Power Supply Unit

Items you will Need

- Mounting screws or clips
- Wire stripper
- Screwdriver
- Pliers

Caution

A qualified electrician must perform installation and maintenance per state, local, and National Electrical Codes (NEC) and requirements.

Installation

Enlighted offers the following two external DALI Bus Power Supply (DALI PSU) units.

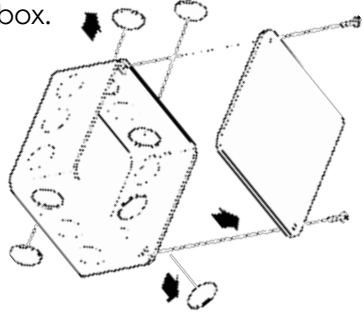
1. Nipple Mount DALI Power Supply Unit (DALI PSU-6).
2. Surface Mount DALI Power Supply Unit (DALI PSU-4). Refer to the *DALI PSU-4 Install Guide*.

The DALI PSU-6 can be mounted either to a junction box or to a fixture.

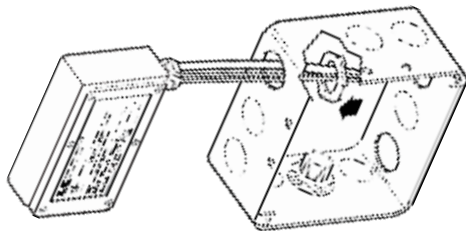
Note: In some cities, such as in Chicago, the nipple mounted DALI PSU must be installed inside a metal enclosure, such as a 4-inch x 4-inch junction box. Refer to the section *DALI PSU-6 Inside of a J-Box*.

Step 1: Switch off the circuit breaker supplying power to the power supply box or the luminaire.

Step 2: Loosen the two screws on the junction box's cover plate and slide out the cover plate. Remove a ½" knockout on the J-box.

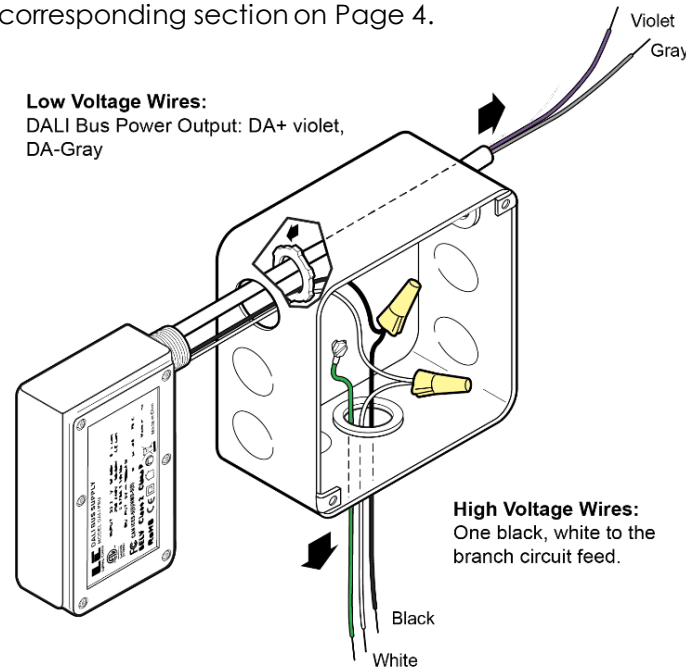


Step 3: Route the wires from the DALI PSU-6 through the knockout hole and pull the wires into the box.



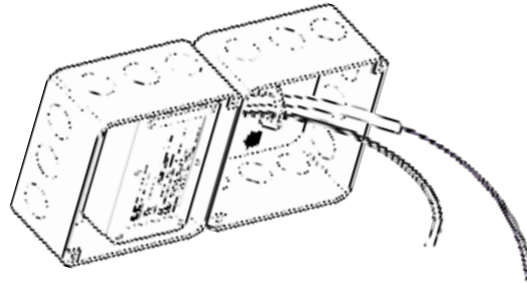
Step 4: When routing the wires through the knockout, route the cables through the locknut and thread the locknut inside of the J-box and tighten it.

Step 5: Connect the two groups of wires, high voltage and low voltage wires (protected by white nylon sleeve), according to the code requirements. Refer to the corresponding section on Page 4.



DALI PSU-6 Inside of a J-Box

Step 1: To mount the PSU-6 inside a 4-inch x 4-inch J-box, mount it with the mounting nipple protruding into the adjoining J-box, as shown. Use the lock nut on the PSU nipple to secure both J-boxes together. Route the wires in the adjacent J-box as per the instructions in the Wiring Procedure section.



Wiring the High Voltage Wires

Refer to the DALI-PSU Line diagram on Page 5.

Step 1: Connect the DALI PSU power input wires to the branch circuit feed (**black**=Line, **white**=Neutral) using wire nuts. Make the connections in the J-box per code.

Wiring the Low Voltage Wires

Note: Per NEC and local code compliance, DO NOT connect the low voltage wires in the same J-box as the high voltage wires. The low voltage wires are enclosed in a 600V rated sleeve sufficiently long to pass through the high voltage J-Box, eliminating the need for further separation or barrier. Use a bush or clamp in the knockout where the low voltage wires exit the J-box through the knockout.

The DALI PSU-6 provides power to the DALI Bus and can source up to 200mA current. Output wire **Violet** is DA+ output, **Grey** wire is DA- output.

- Connect the DA+ and DA- output from the DALI PSU to the DALI port of the DALI device to be powered.
- For multiple DALI devices on the same DALI bus powered by a single DALI PSU, connect all DALI ports from the DALI device in parallel. Note the polarity of all the devices; connect **violet** to **violet** and **grey** to **grey**, DA+ to DA+ and DA- to DA-.

Completing the Installation

Step 1: Bend wires into place such that the J-box cover can easily be reattached.

Step 2: Install the covers for the J-box and ballast cavity, apply power to the newly wired lighting fixture, or turn the power on to the power-supply box.

Step 3: The Enlighted sensor will perform a wiring test based on the sensor commissioning status or programming.