



Power Extender Dimming Control

Cat. No. PE100-1
Rating: 1920W/VA-120VAC, 50/60Hz

Incandescent
Magnetic Low-Voltage
Neon/Cold Cathode

For more information go to
www.leviton.com

INSTALLATION INSTRUCTIONS



DI-000-PE100-00A

FEATURES

- Works with incandescent, magnetic low-voltage, halogen, or neon/cold cathode lighting.
- Low-end adjustment available for setting the minimum brightness level.
- Works with any Dimensions 3200 Series Multizone Controller/Dimmer to extend load capacity on any zone.

DESCRIPTION

The Leviton Power Extender, Cat. No. PE100-1, will emulate the characteristics of the dimmer that it is connected to in terms of dimming range and resolution.

Compatibility

- **Box Mounted Dimmers** – Must use a 120V, 600W Incandescent version of the following families: Illumatech, Mural, True Touch, Toggle Touch, Touch Point, and Home Controls.
- **Monet Installations** – Must use Monet Magnetic Low-Voltage (requires a Neutral wire).
- **Architectural Systems** – Works with all families.

NOTE: For dimmers that include a Neutral wire (such as some scene capable dimmers), the dimmer Neutral wire must be connected.

NOTE: The PE100-1 has a minimum level adjustment.

FCC COMPLIANCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

INSTALLATION INSTRUCTIONS

WARNING: TO BE INSTALLED AND/OR USED IN ACCORDANCE WITH APPROPRIATE ELECTRICAL CODES AND REGULATIONS.

WARNING: IF YOU ARE NOT SURE ABOUT ANY PART OF THESE INSTRUCTIONS, CONSULT A QUALIFIED ELECTRICIAN.

OTHER CAUTIONS:

1. BOTH LIGHTING FIXTURE AND CONTROLLER MUST BE GROUNDED.
2. DISCONNECT POWER WHEN SERVICING FIXTURE OR CHANGING LAMPS.
3. USE THIS DEVICE ONLY WITH COPPER OR COPPER CLAD WIRE. WITH ALUMINUM WIRE USE ONLY DEVICES MARKED CO/ALR OR CU/AL.

NOTE: The Power Extender must be installed in a 1900 Box with Raised Cover or a properly grounded metal 2-gang wall box, 3.5" (8.9 cm) deep (refer to Figure 1A, 1B, 2A, and 2B). Depending on the application and the number of connections, more space may be needed. If so, use an appropriate size box or box extension. Refer to Step 4.

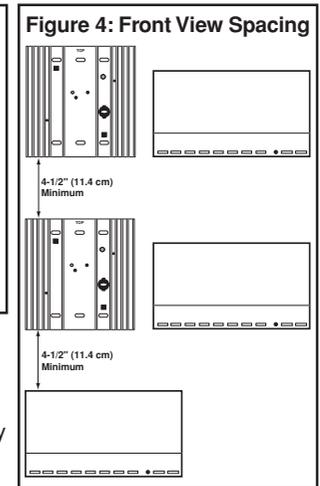
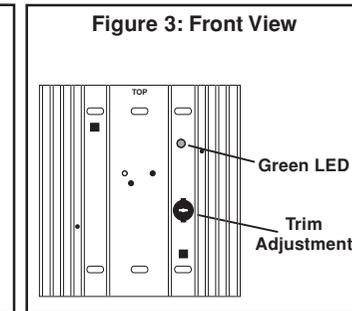
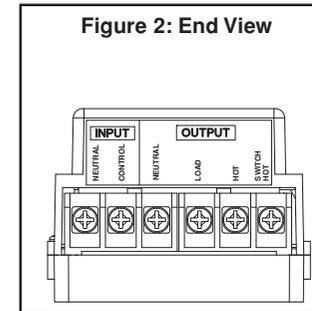
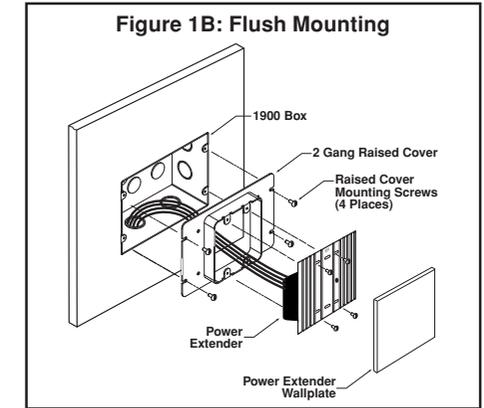
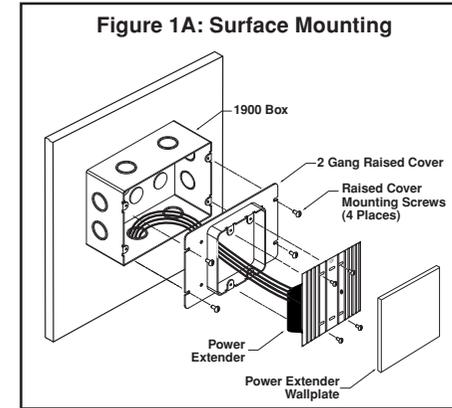
TO INSTALL:

1. **WARNING:** TO AVOID FIRE, SHOCK, OR DEATH; TURN OFF POWER AT CIRCUIT BREAKERS OR FUSES AND TEST THAT POWER IS OFF BEFORE WIRING!

MORE THAN ONE CIRCUIT BREAKER CAN POWER THIS DEVICE. DISCONNECT "ALL" POWER SOURCES BEFORE SERVICING CONTROL.

2. Remove 1/2" (1.3 cm) of insulation from each circuit conductor in wall box. Make sure that ends of conductors are straight.

3. Connect lead wires per appropriate WIRING DIAGRAM and FIGURE 2 as follows: All connections to the output terminals should be made using #12 AWG wire. Each power terminal can accept up to two(2) #12 wires. The recommended installation torque is 9.0 in.-lbs. for line voltage connections.



4. Carefully position all wires to provide room in outlet box for Power Extender. All Power Extenders must have 4-1/2" spacing above and below each unit for proper ventilation and heat dissipation (refer to Figure 4). Line voltage wiring should be at least 6 ft. away from sound or electronic equipment wiring. Mount Power Extender to wall box with "TOP" facing up as follows (refer to Figure 3).

For Wall Box Mounting: Refer to Figure 1A.

For Flush Mounting: Refer to Figure 1B.

For Panel Mounting (not shown), Proceed as follows:

- a. The enclosure must be in accordance with all local and national electrical codes.
 - b. Leviton DOES NOT recommend using a door to enclose the front of a panel, since this restricts airflow to the controls.
 - c. If mounting multiple controls in an enclosure:
 - Ambient temperature within an enclosure "MUST REMAIN BETWEEN" 32°-104°F (0°-40°C).
 - If not mounting in a metal enclosure, all units "MUST" be mounted in a wall box.
 - d. To improve heat dissipation of controls, remove the faceplate from the unit.
5. Restore power at circuit breaker or fuse.
 6. Turn ON the dimmer.
 7. Using the dimmer control, verify that the load DIMS and BRIGHTENS smoothly and the lamps do not flicker.
 8. Attach wallplate by aligning tabs on back of plate with grooves in fins on Power Extender (refer to Figure 1A and Figure 1B). **INSTALLATION IS COMPLETE.**

For Technical Assistance Call:
1-800-824-3005 (U.S.A. Only)
1 800 405-5320 (Canada Only)
www.leviton.com



DI-000-PE100-00A

OPERATION

The operation of the PE100-1 follows the operation of the dimmer it is connected to. To operate the PE100-1, the dimmer must be operated as follows:

ON: Turn ON the dimmer.

Turn OFF: Turn OFF the dimmer.

DIM: Adjust the dimmer DIM level.

BRIGHTEN: Adjust the dimmer BRIGHTNESS level.

Air Gap: Activating the air gap on the dimmer will cause the PE100-1 to turn its controlled Load OFF.

CAUTION: The Power Extender will still remain powered, but it will not activate the load.

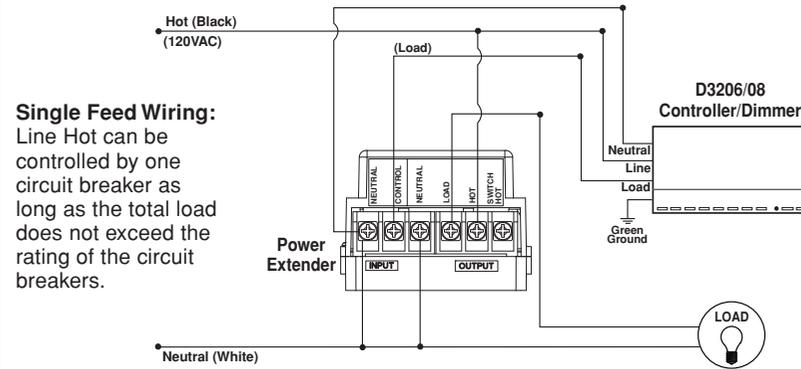
Green LED: Illuminates when load in ON.

The PE100-1 has an air gap relay built in, therefore, the load will be disconnected by an air gap when the dimmer is OFF or the air gap control on the dimmer is activated.

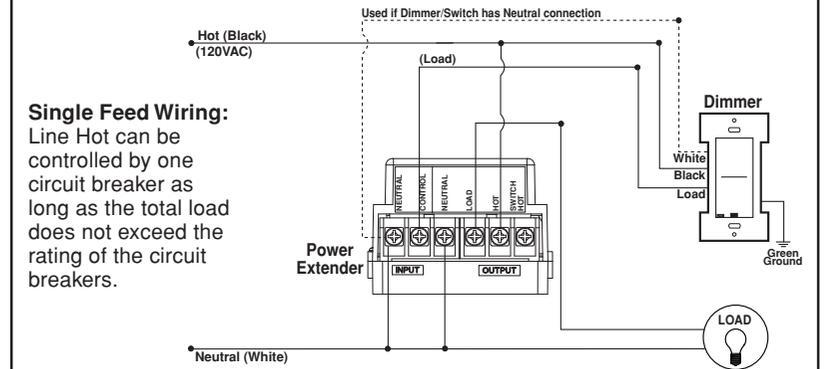
TROUBLESHOOTING

- The Power Extender is not powered
 - Circuit breaker is OFF.
 - Power wires are not connected properly.
- The load does not turn ON, but the Power Extender is powered
 - The dimmer is OFF.
 - The dimmer air gap switch is activated.
 - The dimmer is connected to a separate circuit, and the circuit breaker is OFF.
 - Dimmer is mis-wired
 - Control Neutral (from dimmer) wire is not connected to the Neutral of the Line pair feeding the dimmer.
 - Dimmer is not an incandescent, 600W dimmer or a Monet Magnetic Low-voltage.
- The load turns ON, but quickly turns OFF
 - Dimmer is not an incandescent, 600W version.
- No full range dimming
 - Remove wallplate if necessary and ensure the Power Extender trim adjustment (**refer to Figure 3**) is set to its fully counter-clockwise (ccw) minimum level.

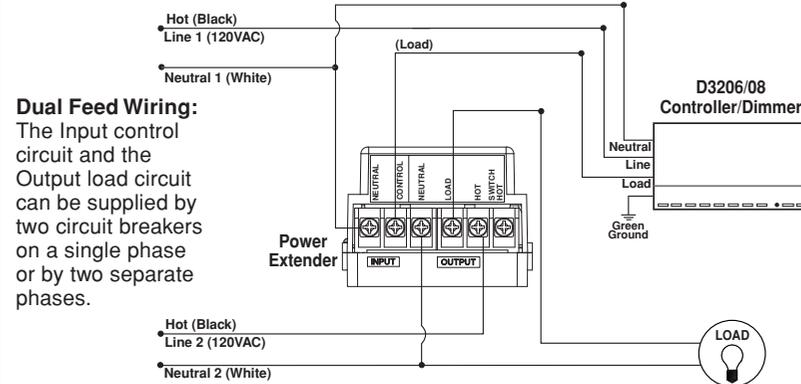
Wiring Diagram 1A: Single Feed Wiring Application w/Controller



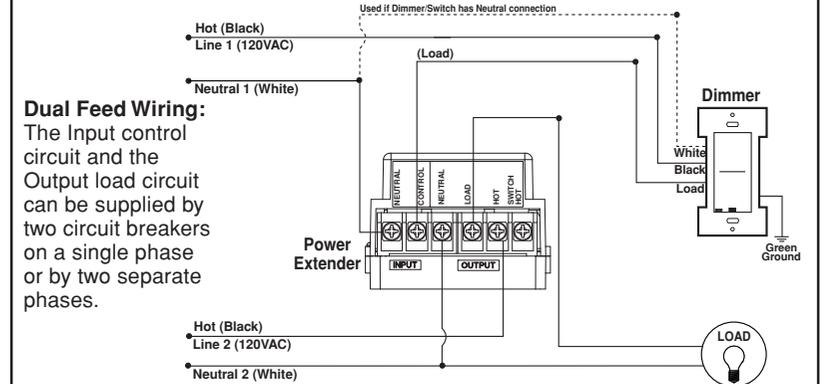
Wiring Diagram 1B: Single Feed Wiring Application w/Dimmer



Wiring Diagram 2A: Dual Feed Wiring Application w/Controller



Wiring Diagram 2B: Dual Feed Wiring Application w/Dimmer



Wiring Diagram 3: Dual Feed Wiring Application w/Dimmer and Two Power Extenders

