Installation Instructions

Please Leave for Occupant

Package Contents and Parts Identification (Figure A)

Installation Instructions

Please Read Before Installation

Multigang Installations

When installing more than one control in the same wallbox, it may be necessary to remove all inner side sections prior to wiring (see diagram). Using pliers, bend side section up and down until it breaks off. Repeat for each side section to be removed. A physical barrier (partition) must exist when ganging with line-voltage products.

Installation

1. TURN POWER OFF to disable the 0-10 volt devices to be dimmed.
2. Strip wallbox wires to the following lengths:
   - 5/8 in (16 mm) for 16 to 20 AWG (1.0 to 0.50 mm²) wire.
   - 1/2 in (13 mm) for 10 to 14 AWG (6 to 1.5 mm²) wire.
   - Use a wire connector to join one 14 to 18 AWG (1.5 to 0.75 mm²) supply wire with one or two 20 AWG (0.50 mm²) control wire(s).
3. Wire controls according to the appropriate wiring diagram shown in the “Wiring” section of this sheet and on the ballast.
4. Carefully push wires into wallbox allowing room for the control back cover.
5. Mount control into wallbox using screws provided. Units must be mounted vertically. (See Figure A).
6. Turn power ON. Pushing slider up should increase light intensity. Pushing slider down should decrease light output to approximately 10% of the maximum light level for 10% dimming ballasts.
7. The minimum light level (low-end) may be adjusted as follows:
   a. Push slider to the bottom-most position (minimum light intensity) and run lamps for 15 minutes to warm lamps.
   b. Locate minimum light level trimpot adjustment thumb wheel on the front of the unit (See Figure A).
   c. Turn the thumb wheel counterclockwise to decrease light level and clockwise to increase light level.
8. Attach Faceplate.

Troubleshooting

LIGHTS DO NOT OPERATE AT FULL BRIGHTNESS:

- Check to see that purple and gray wires are not cross connected in any fixture, conduit, or wallbox.
- Push slider up. Turn high-end trimpot counter-clockwise with a screwdriver to achieve maximum light intensity. The trimpot is initially set at the factory to the full counterclockwise position for maximum light intensity.

LIGHTS DO NOT DIM LOW ENOUGH:

- If the rated dimming range is not achieved, check to see that purple and gray wires are not cross connected in any fixtures.
- Push slider down. Turn the low-end trimpot thumb-wheel counter-clockwise to achieve minimum light intensity.

LIGHTS TURN OFF OR FLICKER AT LOW END:

- Push slider down. Turn the low-end trimpot thumb wheel clockwise until the lights remain on without flickering.
Wiring
The total low-voltage wiring for this unit should not exceed 500 ft (152 m) with 20 AWG (0.50 mm²) wire. For long low-voltage wiring runs, or where excessive electrical noise exists, shielded cable or conduit is required. A maximum load of 30 mA of current can be connected to the dimming wires (Purple, Gray) and a maximum load of 100 mA of current can be connected to the switch wires (Blue, Red, Red/White) of one control. Install in accordance with all local and national electrical codes.

**NOTICE:** LUTRON IS NOT LIABLE FOR DAMAGE DUE TO MISWIRING 0-10 VOLT CONTROL SIGNAL WIRES WITH LINE VOLTAGE.

**WARNING:** SHOCK HAZARD. COULD RESULT IN SERIOUS INJURY OR DEATH. DO NOT RUN CLASS 2 WIRES AND LINE VOLTAGE CONDUCTORS TOGETHER IN THE SAME CONDUIT.

The low-voltage ballast control can be wired two ways: Dimming Only or ON/OFF and Dimming. Use the appropriate wiring diagram.

Wiring Without Relay
No Power Switching
Connect the control as shown in Figure B2. Changing the slider position will alter light intensity. Toggling the switch will switch between the preset slider value and the minimum light intensity of the ballast or driver. Note that on some ballasts and drivers this minimum light intensity will not be OFF.

Dimming Only Wiring
Power wiring not shown—see lighting device for wiring

**Figure B1:**

Dimming Only Wallbox Wiring

**Figure B2:**

Dimming With ON/OFF Control Via Relay
Connect the control as shown in Figure C2. Do not install the Relay in the same wallbox as the low-voltage control. Refer to the wiring sheet included with the Relay for more information.

Dimming With ON/OFF Control
Wiring Diagram Using Relay

**Figure C1:**

Dimming With ON/OFF Control Wallbox Wiring

**Figure C2:**

Note: Wire locations will vary. Reference wires by color not location.

Worldwide Technical and Sales Assistance
If you have questions concerning the installation or operation of this product, call the **Lutron Technical Assistance Hotline.** Please provide exact model number when calling.

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