



Single Pole (One location) or 3-Way (Multi-location) Scene Capable Incandescent/Magnetic Low Voltage or Fluorescent Dimmer

Cat. No. DZMX1, 1000VA, 1000W, 450W LED/CFL (Lighted)
120VAC, 60Hz

INSTALLATION INSTRUCTIONS



WARNINGS AND CAUTIONS:

- **TO AVOID FIRE, SHOCK, OR DEATH; TURN OFF POWER** at circuit breaker or fuse and test that power is off before wiring!
- **TO AVOID FIRE, SHOCK, OR DEATH; DO NOT** install to control a receptacle, a motor or a transfer operated appliance.
- To be installed and/or used in accordance with electrical codes and regulations.
- If you are unsure about any part of these instructions, consult an electrician.
- Use **ONLY** with the appropriate Advance Transformer 120V Mark 10™ *Powerline* or Lutron Tu-Wire® electronic ballasts for controlling the specific fluorescent lamps in Fluorescent Mode.
- Use with LED, CFL, incandescent, magnetic low voltage, fluorescent, or 120V halogen fixtures only. Use a Leviton electronic low voltage dimmer to control electronic (solid state) low voltage transformers.
- When retrofitting Mark 10™ *Powerline* dimming ballasts into fixtures that originally had Instant Start ballasts, the sockets **MUST** be replaced with Rapid Start sockets to allow proper dimmer operation and prevent damage to the dimmer ballast. Refer to the instructions provided with the ballast.
- Decora® Z-Wave® control dimmers are not compatible with standard 3-way or 4-way switches. They must be used with compatible Vizia +® matching or coordinating remotes for multi-location dimming.
- Maximum wire length from dimmer to all installed remotes cannot exceed 300 ft.
- Dimmer may feel warm to the touch during normal operation.

WARNINGS AND CAUTIONS:

- When magnetic low voltage circuits are operated at a dim level, with all lamps inoperative, excess current may flow through the transformer. To avoid possible transformer failure due to overcurrent, use a transformer that incorporates thermal protection or a fuse at the primary windings.
- Recommended minimum wall box depth is 2-1/2".
- Use this device **WITH COPPER OR COPPER CLAD WIRE ONLY**.
- **Use with compatible dimmable LED, CFL bulbs, incandescent or 120V halogen fixtures only.** For a list of compatible LED and CFL bulbs refer to www.leviton.com.
- When multiple bulbs are used with one dimmer **DO NOT** mix bulb types. All bulbs shall be either LED; CFL or incandescent. Using the same make/model of each bulb will enhance dimmer performance.
- Not for use with Vizia RF® lighting systems.

DI-000-DZMX1-02A

INTRODUCTION

Leviton's Decora® Z-Wave® control components are designed to communicate with each other via Radio Frequency (RF) to provide remote control of your lighting. In a Z-Wave® network, each device is designed to act as a router. These routers will re-transmit the RF signal from one device to another until the intended device is reached. This ensures that the signal is received by its intended device by routing the signal around obstacles and radio dead spots. This dimmer is compatible with any Z-Wave® enabled network, regardless of the manufacturer and can also be used with other devices displaying the Z-Wave® logo.

WARNING: TO AVOID FIRE, PERSONAL INJURY OR DEATH DO NOT USE the remote for the control of high power heating appliances such as portable heaters. Remember to exercise good common sense when using the Timer features of your remote, especially when scheduling unattended devices. There can be some unexpected consequences if not used with care. For example, an empty coffee pot can be remotely turned on. If that should happen, your coffee pot could be damaged from overheating. If an electric heater is turned on by remote control while clothing is draped over it, a fire could result. **DO NOT USE** the remote for the control of high power heating appliances such as portable heaters. This device will not control lighting that is used with electronic low-voltage and high frequency power supply transformers, nor high pressure discharge lamps (HID lighting). This includes mercury-vapor, sodium vapor and metal halide lamps.

FEATURES

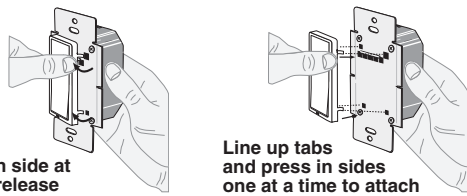
- Soft fade ON/OFF
- Scene capable
- ON/OFF LED and Brightness level LED
- Two way communication
- RF reliability
- Ease of installation – No new wiring
- Compatible with other Z-Wave® enabled devices

TOOLS NEEDED TO INSTALL YOUR DIMMER

Slotted/Phillips Screwdriver Electrical Tape Pliers
Pencil Cutters Ruler

Changing the color of your Dimmer:

Your device may include color options. To change color of the face proceed as follows:



Push in side at tab to release

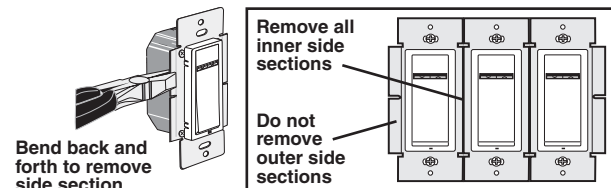
Line up tabs and press in sides one at a time to attach

INSTALLING DIMMER BY ITSELF OR WITH OTHER DEVICES

If installing Dimmer in a single device application, proceed with the **INSTALLING YOUR DIMMER** section. If installing Dimmer in a multi-device application, proceed as follows:

MULTI-DEVICE APPLICATION

In multi-dimmer installations, the reduction of the dimmer's capacity is required. Refer to the chart for maximum load per dimmer.



MAXIMUM LOAD PER DIMMER FOR MULTI-DEVICE			
Load	Single	Two Devices	More than 2 Devices
Incand	1000W	800W	650W
Mag LV	1000VA	800VA	650VA

MAXIMUM BULB WATTAGE

Low-voltage dimmers are rated in Volt-Amps (VA). The maximum bulb wattage is determined by the efficiency of the transformer in the low-voltage lighting system. Transformer efficiencies will vary from different manufacturers; consider 80% efficient as average. Use the chart to determine maximum bulb wattage for typical transformer efficiency ratings.

MAXIMUM BULB WATTAGE AT 75% EFFICIENCY			
Rating	Single	Two Gang	More than 2 Gang
1000VA	800W	640W	520W

MAXIMUM BULB WATTAGE

Mark 10™ *Powerline* dimmers are rated in Volt-Amps (VA). The maximum bulb wattage is determined by the efficiency of the Mark 10™ *Powerline* ballast. The following table shows the maximum number of ballasts that can be connected to a single dimmer for different Mark 10™ *Powerline* ballasts. Also note that the table shows maximum ballasts for multi-gang installations.

Cat. No. DZMX1, 120V, For use with Advance Transformer 120V Mark 10™ *Powerline* Electronic Ballasts

Advance Mark 10™ <i>Powerline</i> Part No.	Lamp	Max. # Ballasts/Dimmer for Multi-gang		
		Single Gang	Two Ganged	More than 2 Gang
REZ-2Q18-M2-LD	CFM18W/GX24Q	23	18	15
REZ-1T32	CFM26W/GX24Q	32	25	20
REZ-2Q26	CFM26W/GX24Q	17	13	11
REZ-1T32	CFM32W/GX24Q	26	20	16
REZ-1T42	CFM42W/GX24Q	20	16	13
REZ-1Q18-M2-BS	CFQ18W/G24Q	46	37	30
REZ-1Q18-M2-LD	CFQ18W/G24Q	46	37	30
REZ-2Q18-M2-BS	CFQ18W/G24Q	23	18	15
REZ-1T32	CFQ26W/G24Q	32	25	20
REZ-1T42-M2-BS	CFQ26W/G24Q	32	25	20
REZ-1T42-M2-LD	CFQ26W/G24Q	32	25	20
REZ-2Q26	CFQ26W/G24Q	17	13	11
REZ-2Q26-M2-BS	CFQ26W/G24Q	17	13	11
REZ-2Q26-M2-LD	CFQ26W/G24Q	17	13	11
REZ-1Q18-M2-BS	CFTR18W/GX24Q	46	37	30
REZ-1Q18-M2-LD	CFTR18W/GX24Q	46	37	30
REZ-2Q18-M2-BS	CFTR18W/GX24Q	23	18	15
REZ-2Q18-M2-LD	CFTR18W/GX24Q	23	18	15
REZ-1T42-M2-BS	CFTR26W/GX24Q	32	25	20
REZ-1T42-M2-LD	CFTR26W/GX24Q	32	25	20
REZ-2Q26-M2-BS	CFTR26W/GX24Q	17	13	11
REZ-2Q26-M2-LD	CFTR26W/GX24Q	17	13	11
REZ-1T42-M2-BS	CFTR32W/GX24Q	26	20	16
REZ-1T42-M2-LD	CFTR32W/GX24Q	26	20	16
REZ-2T42-M3-BS	CFTR32W/GX24Q	13	10	8

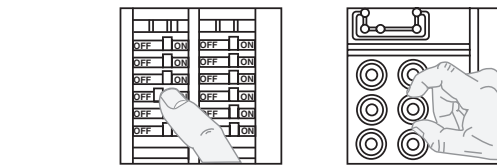
Lutron Tu-Wire®:

To determine total ballast load, add the line current found on the ballast label for all ballasts in the circuit. This will indicate the total load for the control.

INSTALLING YOUR DIMMER

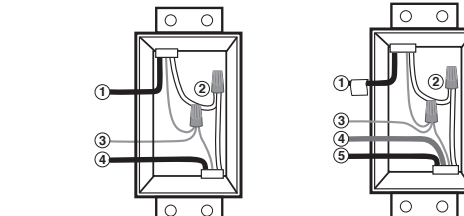
NOTE: Use check boxes when Steps are completed.

Step 1 **WARNING: TO AVOID FIRE SHOCK OR DEATH; TURN OFF POWER** at circuit breaker or fuse and test that power is off before wiring!



Step 2 **Identifying your wiring application (most common):**

NOTE: If the wiring in your wall box does not resemble any of these configurations, consult an electrician.



Single Pole

1. Line (Hot)
2. Neutral
3. Ground
4. Load

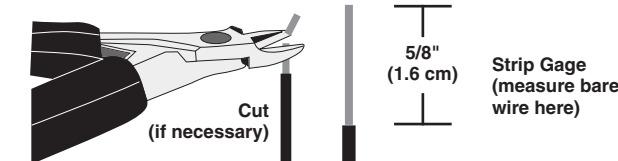
3-Way

1. Line or Load (see important instruction)
2. Neutral
3. Ground
4. First Traveler – note color
5. Second Traveler – note color

IMPORTANT: For 3-Way applications, note that one of the screw terminals from the old switch being removed will usually be a different color (Black) or labeled Common. Tag that wire with electrical tape and identify as the common (Line or Load) in both the dimmer wall box and remote wall box.

Step 3 **Preparing and connecting wires:**

Pull off pre-cut insulation from dimmer leads. Make sure that the ends of the wires from the wall box are **straight (cut if necessary)**. Remove insulation from each wire in the wall box as shown:



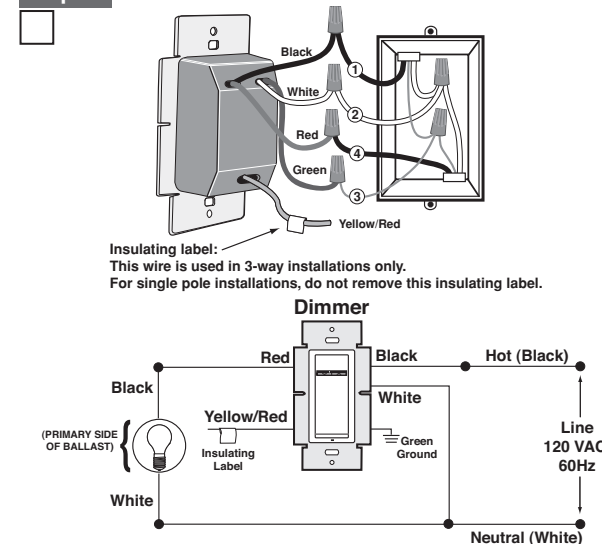
- Pull off pre-cut insulation from dimmer leads.
- Make sure that the ends of the wires from the wall box are **straight (cut if necessary)**.
- Remove insulation from each wire in the wall box as shown.
- **For Single-Pole Application, go to Step 4a.**
- **For 3-Way Coordinating Remote (no LEDs) Application, go to Step 4b.**

For non-standard wiring applications, refer to Wire Nut and Connector Size Chart

WIRE CONNECTOR / # OF COND. COMBINATION CHART

- 1 - #12 w/ 1 to 3 #14, #16 or #18
- 2 - #12 w/ 1 or 2 #16 or #18
- 1 - #14 w/ 1 to 4 #16 or #18
- 2 - #14 w/ 1 to 3 #16 or #18

Step 4a **Single Pole Wiring Application:**



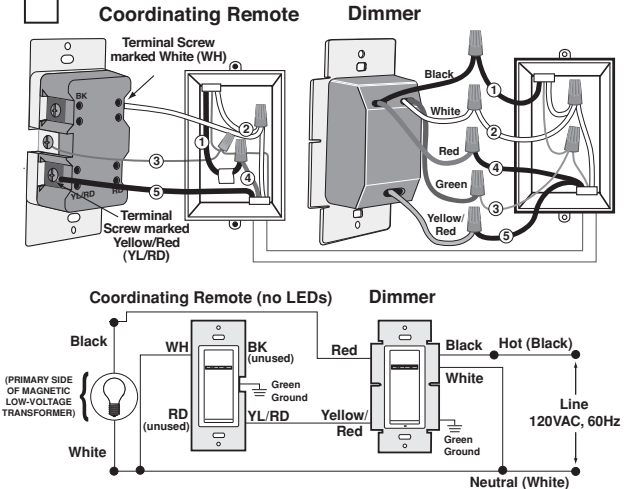
WIRING DIMMER:

Connect wires per WIRING DIAGRAM as follows:

WARNING: CONNECT A MAGNETIC LOW-VOLTAGE DIMMER ONLY TO THE PRIMARY (HIGH-VOLTAGE) SIDE OF A MAGNETIC LOW-VOLTAGE TRANSFORMER.

- Green or bare copper wire in wall box to Green dimmer lead.
- Line Hot wall box wire to Black dimmer lead.
- Load wall box wire to Red dimmer lead.
- Line Neutral wall box wire to White dimmer lead.
- Yellow/Red dimmer lead should have Red insulation label affixed.
- **NOTE:** If insulating label is not affixed to Yellow/Red dimmer lead, use electrical tape to cover.
- **Proceed to Step 5.**

Step 4b **3-Way Wiring with VP00R-10Z Coordinating Remote (no LEDs) Application:**



WIRING DIMMER:

Connect wires per WIRING DIAGRAM as follows:

WARNING: FOR MAGNETIC LOW-VOLTAGE APPLICATIONS, CONNECT DIMMER ONLY TO THE PRIMARY (HIGH-VOLTAGE) SIDE OF A MAGNETIC LOW-VOLTAGE TRANSFORMER.

- **NOTE:** When using the coordinating remote without LEDs, the dimmer can be installed on either the Line or Load side of the 3-way circuit.
- **NOTE:** Maximum wire length from dimmer to all installed remotes cannot exceed 300 ft (90 m).
- Green or bare copper wire in wall box to Green dimmer lead.
- Line Hot (common) wall box wire identified (tagged) when removing old switch to Black dimmer lead.
- First Traveler wall box wire to Red dimmer lead (**note wire color**).
- Remove Red insulating label from Yellow/Red dimmer lead.
- Second Traveler wall box wire to Yellow/Red dimmer lead (**note wire color**). This traveler from the dimmer must go to the terminal screw on the remote marked "YL/RD".
- Line Neutral wall box wire to White dimmer lead.

WIRING COORDINATING REMOTE:

Connect wires per WIRING DIAGRAM as follows:

- **NOTE:** "BK" and "RD" terminals on coordinating remote are unused. Tighten both screws.
- **NOTE:** Maximum wire length from dimmer to last remote is 300 ft (90 m).
- Green or bare copper wire in wall box to Green terminal screw.
- Load wall box wire identified (tagged) when removing old switch to First Traveler (**note color as above**).
- Second Traveler wall box wire (**note color as above**) to terminal screw marked "YL/RD". This traveler from the remote must go to the Yellow/Red dimmer lead.
- Remove White insulating label from terminal screw marked "WH".
- Line Neutral wall box wire to terminal screw marked "WH".
- **Proceed to Step 5.**

WEB VERSION

