

0-10V DECORATOR DIMMER

| DCLV2

Controls low voltage 0-10V lighting loads, including LED

Decorator styling, compatible with radiant® screwless or standard wall plates

Last Assigned Recall

Single Pole



Input for occupancy sensors

Can be set for Manual-On or Partial-On to meet advanced energy codes.

Easy to use interface

Description

The DCLV2 0-10V Lighting Dimmer is a low voltage (Class 2) device. The DCLV2 provides a nominal 0-10VDC signal to smoothly dim compatible 0-10V LED lighting drivers. Controller includes a sensor input for automatic operation and can also be put in Manual-On mode for code compliance.

Operation

Users operate the 0-10V Controller by pressing up or down on the paddle to raise or lower light level. Users may also enable the sensor to trigger occupancy, the DCLV2 will normally set the load to the dimming level that it was at when Manual-On or Auto On is enabled.

The DCLV2 is programmed to default to the Manual-On setting. If switched to Auto-On mode, the DCLV2 defaults to 50% Partial-On if no adjustments are made.

If connected to a sensor, the lights will fade on to the preset level and fade off, based on occupancy.

Code-Compliant 0-10V Dimming

0-10V dimming is smooth across the fixture's dimming range (consult driver manufacturer for lowest output level). When the Controller signal output drops to 0, the auxiliary relay (WattStopper power pack) will turn the controlled fixtures off after one to two seconds. For code-compliant automatic-off lighting control, an occupancy sensor input may be wired to the controller. Both the sensor and the Controller may be powered from a single power pack. Lighting will fade on when the sensor detects occupancy and off after the space has been vacated.

Note: Fixtures may stop dimming lower once 1VDC is reached, per ANSI C82.11-Annex A for 0-10V controls.

Applications

Common applications include offices, conference rooms, training centers and healthcare & classrooms where load control is required from a single location.

Features

- May be used for on/off lighting and 0-10V dimming control
- Sinks up to 50mA, to control 25 drivers/ballasts wired in parallel and sourced at 2mA (more drivers/ballasts are possible with lower current fixtures)
- Controls two external maintained relays
- Recalls last-used light level (preset)
- Two-second fade rate
- Power failure restore to last-used level
- Compatible with decorator wall plates

PROJECT

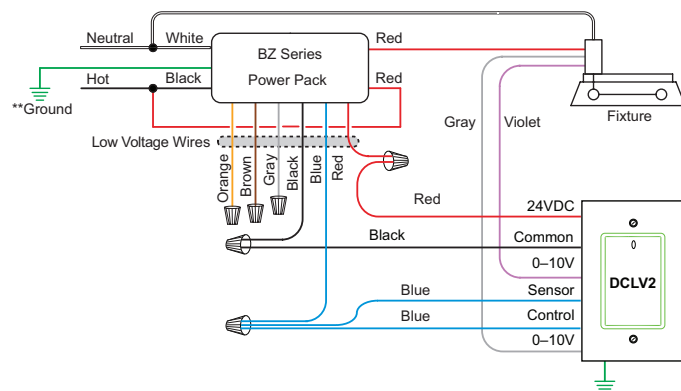
LOCATION/
TYPE

Specifications

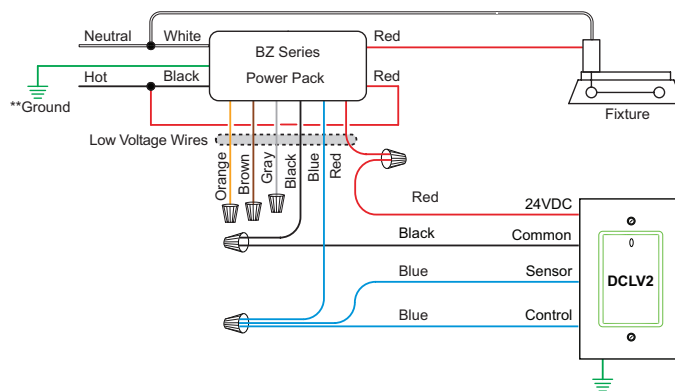
- Input voltage: 24VDC, 16mA
- Control output for 0-10VDC ballasts: Sinks up to 50mA; maximum voltage, 9.5VDC, minimum voltage, 0.75VDC
Consult ballast/driver manufacturer to determine 0-10V mA output
- Dimensions: 2.64" x 1.75" x 1.98" (67.1mm x 44.5mm x 50.3mm) L x W x D; depth in wall 1.65" (41.9mm)
- Operating conditions: for indoor use only; 32-104°F (0-40°C); 0-80% RH, non condensing
- UL and cUL listing pending
- Five year warranty

Wiring

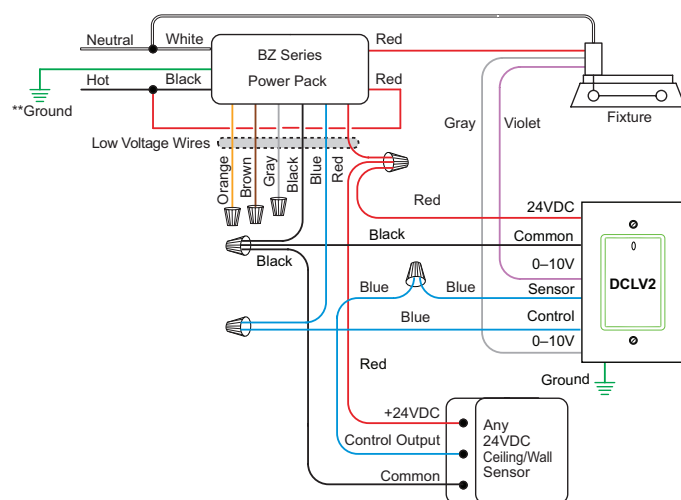
0-10V Wiring



On/Off Wiring



0-10V Wiring for use with a Sensor



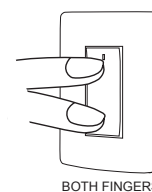
NOTE: For all wiring applications, if BZ Power Pack model includes a DIP switch, do not set switch to "Manual"]

Button Functions

Changing the Mode

LEARN/Select

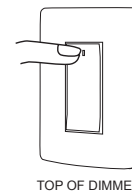
Press the switch with both fingers (just enough to push both toggles inward). Then select the appropriate mode.



BOTH FINGERS

RAISE/Auto On

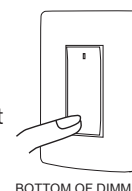
Raise the dim level. While in LEARN Mode: A Red LED Confirms that the Auto On Mode is selected.



TOP OF DIMMER

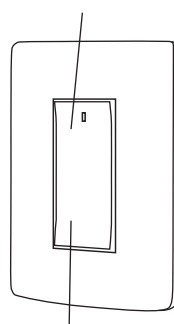
LOWER/Manual On

Lower the dim level. While in LEARN Mode: A Green LED Confirms that the Manual On Mode is selected.



BOTTOM OF DIMMER

1 tap = last non-zero level
2 taps = full output
Press and hold = raise level



1 tap = fade to OFF
Press and hold = lower level

Ordering Information

Catalog #	Description	Input Voltage	Color
☐ DCLV2-W	0-10V Decorator Lighting Dimmer	24VDC	White
☐ DCLV2-LA	0-10V Decorator Lighting Dimmer	24VDC	Light Almond
☐ DCLV2-I	0-10V Decorator Lighting Dimmer	24VDC	Ivory
☐ DCLV2-B	0-10V Decorator Lighting Dimmer	24VDC	Black
☐ DCLV2-G	0-10V Decorator Lighting Dimmer	24VDC	Gray
☐ DCLV2-R	0-10V Decorator Lighting Dimmer	24VDC	Red

Order Wall Plates and Power Packs separately.

WWW.LEGRAND.US/WATTSTOPPER

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