

0-10V DECORATOR DIMMER

| DCLV1

Controls low voltage 0-10V lighting loads or line voltage shades

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

Last level lighting recall



Input for occupancy sensors or photosensors

Auto On

Long-life status LED

Easy to use interface

Description

The DCLV1 0-10V Controller is a low voltage (Class 2) device with two field-selectable modes of operation. In dimming mode, it provides a nominal 0-10VDC signal to smoothly dim up to 100 DC controlled fluorescent dimming ballasts (Advance Mark 7, or equivalent) or compatible LED systems. In shade control mode, it controls line voltage shade motors (Somfy, or equivalent). Auxiliary power pack(s) are required. Controller includes a sensor input for automatic operation.

Operation

Users operate the 0-10V Controller by pressing up or down on the paddle to raise or lower light level. They may also recall the preset level by tapping the paddle. If installed, sensors will fade lights on to the preset level and fade off, based on occupancy.

Code-Compliant 0-10V Dimming

0-10V dimming is smooth, with a typical low level of approximately 5% (consult driver manufacturer for specifics). 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.

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 up to 100 ballasts wired in parallel (each ballast sourcing 0.5mA)
- 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
- Manual On requires a momentary switch and power pack with manual on capability
- Not compatible with the BZ-250

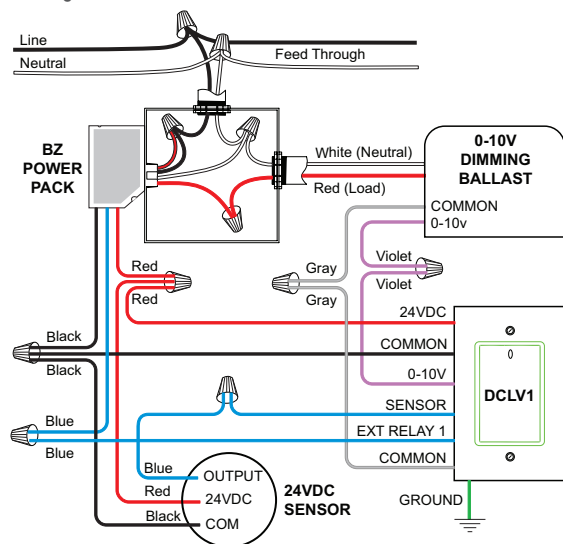
PROJECT		LOCATION/ TYPE	
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Specifications

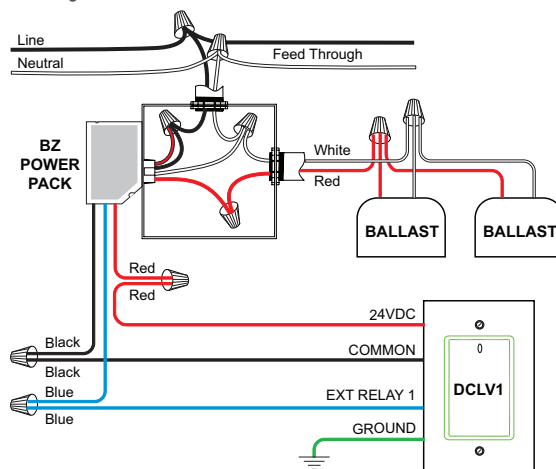
- Input voltage: 24VDC, 35mA
- Control output for 0-10VDC ballasts: Sinks up to 50mA; maximum voltage, 9.5VDC, minimum voltage, 0.5VDC
- Two outputs for external maintained relays
- Dimensions: 2.64" x 1.75" x 1.98" (67.1mm x 44.5mm x 50.3mm) L x W x D; depth in wall 1.65" (41.9mm)
- Operating conditions: for indoor use only; 32-104°F (0-40°C); 0-80% RH, non condensing
- UL and cUL listing pending
- Five year warranty

Wiring

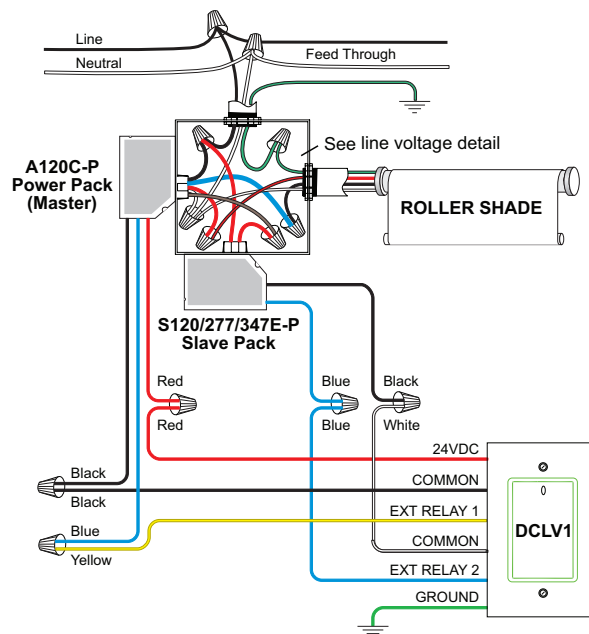
0-10V Wiring



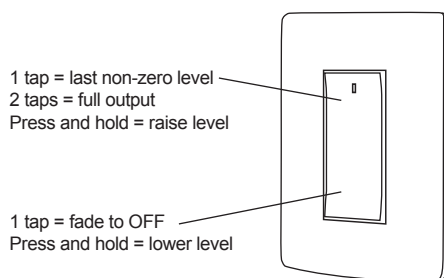
On/Off Wiring



Shade Wiring



Button Functions



Ordering Information

Catalog #	Description	Voltage	Color
<input type="checkbox"/> DCLV1-W	0-10V Decorator Lighting Dimmer	24VDC	White
<input type="checkbox"/> DCLV1-LA	0-10V Decorator Lighting Dimmer	24VDC	Light Almond
<input type="checkbox"/> DCLV1-I	0-10V Decorator Lighting Dimmer	24VDC	Ivory
<input type="checkbox"/> DCLV1-B	0-10V Decorator Lighting Dimmer	24VDC	Black

Order Wall Plates and Power Packs separately.