

BZ-50 Power Pack



Installation Instructions

SPECIFICATIONS

Voltages	120/230/277VAC, 50/60Hz
Load Requirments	
Ballast	20amp @120/277VAC
Incandescent	20amp @120VAC
Motor	1HP @120/240VAC
Output	225mA @24VDC (with relay connected)
Low Voltage Input, Control ON	12-24VDC
Operating Temperature	32°-104°F (0-40°C)

WARRANTY INFORMATION

Watt Stopper/Legrand warranties its products to be free of defects in materials and workmanship for a period of five (5) years. There are no obligations or liabilities on the part of Watt Stopper/Legrand for consequential damages arising out of, or in connection with, the use or performance of this product or other indirect damages with respect to loss of property, revenue or profit, or cost of removal, installation or reinstallation.



Santa Clara, CA 95050

DESCRIPTION

The BZ-50 power pack is the foundation for any low voltage lighting control system. The BZ-50 supplies low voltage power to occupancy sensors and other control devices, switching line voltage in response to signals from control devices. The BZ-50 power pack is attached to existing junction boxes or mounted into fixture wiring trays.

Low voltage wiring should use at least 22-gauge wire, high voltage connections should use at least 14-gauge. Always check local building codes. After initial wiring is complete, check wiring diagram to verify power pack is wired correctly. Improper wiring can cause damage to power pack, lighting system, and occupancy sensor.

INSTALLATION



WIRING

1. Make sure power has been turned off at the circuit breaker.
2. Connect wires as shown in Fig.1 or Fig. 2.

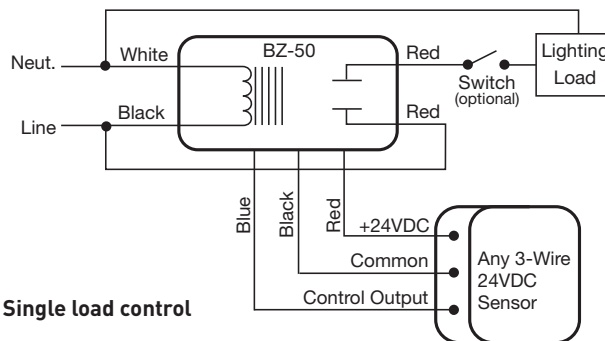
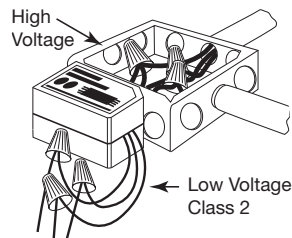


Fig. 1: Single load control

Call 800.879.8585 for Technical Support

Installation Notes

1. Power packs should be installed in accordance with state, local and national electrical codes and requirements.
2. Power packs are designed to attach to existing or new electrical enclosures with 1/2 inch knockouts.
3. Most applications require UL listed, 18-22 AWG, 3-conductor, Class 2 cable for low voltage wiring. For plenum return ceilings, use UL listed plenum-approved cables.
4. The BZ-50 is a Class 2 Output Power Supply, suitable for parallel interconnection of up to 10 units maximum. This powerpack is UL Listed for Interconnection of Power Sources in accordance with the National Electric Code.

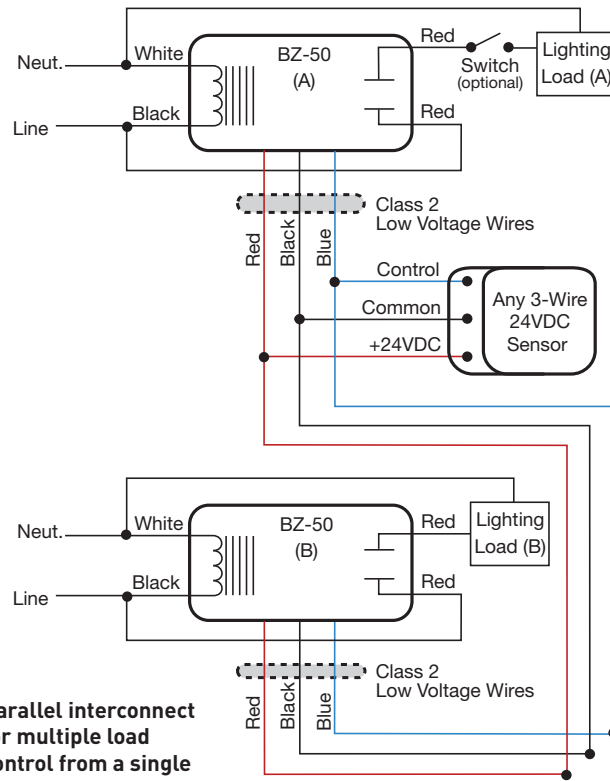


Fig. 2: Parallel interconnect for multiple load control from a single sensor

OPERATION

Low Voltage Input (Blue Wire):

The blue wire carries the +12-24VDC maintained input Control ON signal to the BZ-50. Applying 12-24VDC to this input closes the BZ-50 load relay. Removing the voltage returns the relay to its normal state. This input is intended for sensor or control device input.

Over Current Protection:

The BZ-50 contains built-in short circuit and thermal protection circuitry that shuts down the +24VDC output (red wire to sensors) to prevent permanent damage to the power pack. Removing the excess load from the output restores the BZ-50 to proper operation. The excess load can be connected to another power pack.

LED Indicator:

The LED indicates the following conditions on the BZ-50:

- **LED OFF:** no power to the BZ-50, or the +24VDC output is shorted.
- **LED ON, blinks once every 5 seconds:** the relay is closed (load ON).
- **LED ON continuously:** the relay is open (load OFF).
- **LED blinking continuously:** current output limit is exceeded (too many sensors are connected to the power pack); +24VDC output shut down.

ORDERING INFORMATION

Catalog No.	Description	Input Voltage	Load Range			Output
			Ballast (A)	Incan. (A)	Motor (hp)	
BZ-50	Power Pack	120/230/277VAC, 50/60Hz	20	20	1	24VDC, 225mA w/relay connected
BZ-150	Power Pack, Hold ON/OFF, Manual ON	120/230/277VAC, 50/60Hz	20	20	1	24VDC, 225mA w/relay connected



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