

BZ-50RC Universal Voltage Power Pack

High-efficiency switching power supply

Overcurrent protection (low-voltage)

RJ45 connection

Hold ON and Hold OFF inputs



Zero crossing for reliability and increased product life

Plenum rated

PROJECT
LOCATION/TYPE

Product Overview

Description

The BZ-50RC Universal Voltage Power Pack provides 24 VDC operating voltage to WattStopper's low-voltage occupancy sensors equipped with RJ45 jacks. This device is constructed with environmentally friendly materials and is RoHS-compliant.

Operation

The BZ-50RC consists of a high-efficiency switching power supply and a high-current relay. It has an input of 120/277 VAC, 50/60Hz, and an output of 24VDC, 225mA. It switches line voltage in response to the signal coming from the occupancy sensor. The BZ-50RC can be attached to existing junction boxes or mounted into fixture wiring trays.

Plenum Rated

The BZ-50RC Power Pack is comprised of Teflon-coated low-voltage leads and an ABS, UL 2043 and 94V-0 plastic resin enclosure that is plenum-rated. As a result, the BZ-50RC does not require installation into the junction box, but can be cost-effectively installed directly into a lighting fixture.

Applications

The BZ-50RC Power Pack is designed to be flexible enough to control almost any lighting or HVAC load, such as lighting circuits, self-contained air conditioners, pumps, fans, motors, VAV systems, motorized damper controls and setback thermostats. The BZ-50RC is well-suited for any application which requires high-voltage switching through low-voltage controls. By linking power packs and sensors, an almost unlimited number of configurations can be obtained.

Features

- Self-contained power supply relay system
- Efficient switching power supply providing optimized current output based on number of sensors
- LED indicates status of relay or if there is a low-voltage overcurrent
- Zero crossing circuitry for reliability and increased product life
- UL 2043 plenum rated for cost-effective installation
- 1/2" snap-in nipple attaches to standard electrical enclosures through 1/2" knockouts
- 14 AWG wires on the relay for 20A operation
- Easy RJ45 connection
- RoHS-compliant

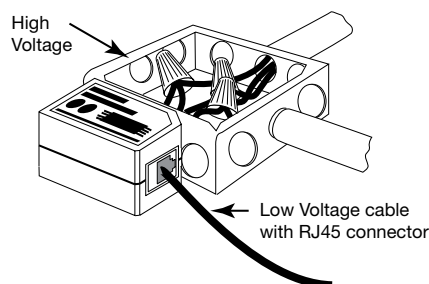


Specifications

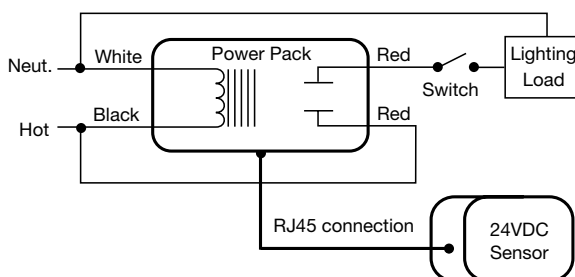
- 120/277VAC, 50/60Hz voltage input
- Load requirements:
Ballast: 20 amp @ 120/277 VAC
Incan: 20 amp @ 120 VAC
Motor: 1 hp @ 120/250 VAC
- Secondary voltage of 24 VDC
- Secondary output of 225 mA (with relay connected)
- Connection:
BZ-50RC with RJ45 connections
- UL-rated 94 V-0 grey plastic enclosure
- Dimensions: 1.6" x 2.75" x 1.6"
(40.6mm x 69.9mm x 40.6mm) H x W x D
with a 1/2" (12.7mm) snap-in nipple
- UL and cUL listed
- Five year warranty

System Layout & Wiring

Installation Diagram



Wiring with Occupancy Sensor



Ordering Information

Catalog No.	Description	Load Ratings			Output
		Ballast(A)	Incan(A)	Motor(HP)	
<input type="checkbox"/> BZ-50RC	Universal Power Pack with RJ45 connection	20	20	1*	24 VDC; RJ45 connection
<input type="checkbox"/> FS-C1	10' cable with shielded RJ45 male connectors at each end				
<input type="checkbox"/> FS-C2	6" cable with 3 flying leads at one end and a shielded RJ45 male connector on the other				
<input type="checkbox"/> FS-C3	3' cable with shielded 90° male RJ45 on one end and a shielded straight male RJ45 at the other				
<input type="checkbox"/> FS-C4	Shielded RJ45 splitter with female to dual female receptacles				
<input type="checkbox"/> FS-C5	Shielded RJ45 male to male coupler				

*1 Hp rated at 120/250 VAC. **Output is 225 mA with relay connected.

Installation Notes

- 1) All WattStopper 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 .5" 125.40mmJ knockout (check electrical codes in your area).
- 3) Most applications require UL-listed, 18-22 AWG, 3-conductor, Class 2 cables for low-voltage wiring. For plenum return ceilings use UL-listed plenum-approved cables.