

## Wattstopper BZ-250

# Wattstopper BZ-250 Lighting Plug Load Flex Control Power Pack User Manual

Model: BZ-250

## INTRODUCTION

The Wattstopper BZ-250 is a power pack designed to switch lighting or plug loads based on low voltage control inputs. It also supplies 24VDC power to Wattstopper occupancy sensors. This device supports various operational sequences, including Manual-On, Hold-On, Hold-Off, and load shedding when integrated with lighting control panels or building automation systems. The BZ-250 is RoHS-conforming.

## SAFETY INFORMATION

Please read and understand all instructions before installing or operating this device. Improper installation or use can result in electric shock, fire, or property damage. Installation should be performed by a qualified electrician in accordance with all national and local electrical codes.

- Disconnect power at the circuit breaker before installation or servicing.
- Do not exceed the specified electrical ratings of the device.
- Ensure all wiring connections are secure and properly insulated.
- This device is intended for indoor use only.

## SETUP AND INSTALLATION

The BZ-250 power pack is designed for wall mounting. Follow these general steps for installation:

1. **Power Disconnection:** Turn off power to the circuit at the main breaker before beginning any wiring.
2. **Mounting:** Securely mount the BZ-250 power pack to a wall in a suitable location.
3. **Wiring Connections:** Connect the power pack using screw terminals. The device operates on 120-277Vac, 50/60Hz. Ensure proper wiring for line voltage and low voltage control inputs. The power pack provides 24VDC output for sensors.
4. **Control Inputs:** Connect Hold ON and Hold OFF inputs as required for your control system.

5. **Sensor Connection:** Connect compatible Wattstopper occupancy sensors to the 24VDC output.
6. **Power Restoration:** Once all connections are secure and verified, restore power at the circuit breaker.



Image: The Wattstopper BZ-250 Lighting Plug Load Flex Control Power Pack. This image shows the compact design of the power pack, typically mounted on a wall.

## OPERATING INSTRUCTIONS

The BZ-250 power pack functions by responding to low voltage control signals to manage connected lighting or plug loads. It also supplies power to connected Wattstopper occupancy sensors.

- **Load Switching:** The power pack switches loads on and off based on signals from connected control devices (e.g., occupancy sensors, lighting control panels, building automation systems).
- **Sensor Power:** It provides a stable 24VDC power source for Wattstopper occupancy sensors.
- **Operational Modes:** Supports Auto-On or Manual-On operation for compliance with various building codes.
- **Advanced Control:** Utilizes mechanically held latching relays and responds to Hold ON and Hold OFF inputs for advanced control scenarios, including load shedding.
- **Power Loss Operation:** Features selectable power loss operation, allowing the device to default to On, Off, or

its last state upon power restoration.

## MAINTENANCE

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The Wattstopper BZ-250 is designed for reliable operation with minimal maintenance. Regular inspection is recommended.

- **Cleaning:** Keep the device free from dust and debris. Use a soft, dry cloth for cleaning. Do not use liquid cleaners or solvents.
- **Inspection:** Periodically check wiring connections for tightness and ensure there are no signs of damage or overheating.
- **Environmental Conditions:** Ensure the operating environment remains within specified temperature and humidity ranges.

## TROUBLESHOOTING

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If the BZ-250 power pack is not functioning as expected, consider the following:

- **No Power to Load:**
  - Verify that the circuit breaker supplying power to the BZ-250 is ON.
  - Check all wiring connections for proper installation and secure contact.
  - Ensure the control input signals are being received correctly by the power pack.
- **Sensors Not Receiving Power:**
  - Confirm the BZ-250 is powered.
  - Check the low voltage wiring between the BZ-250 and the sensors.
- **Incorrect Operation Mode:**
  - Review the settings for Auto-On/Manual-On operation and power loss behavior.
  - Verify the integrity of Hold ON/Hold OFF input signals.

If issues persist, contact Wattstopper technical support.

## SPECIFICATIONS

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Specification	Detail
Model	BZ-250
Operating Voltage	120-277Vac, 50/60Hz
Output Voltage (Sensors)	24Vdc
Current Rating (Output)	225 Milliamps
Wattage	5.4 watts
Operation Mode	ON-ON
Contact Type	Normally Open
Switch Type	Electromechanical (Latching Relay)

Actuator Type	Hold-On, Hold-Off
Mounting Type	Wall Mount
Connector Type	Wired
Terminal	Screw
Control Method	App (via compatible systems)
Connectivity Protocol	Wired
Compatible Devices	Wattstopper occupancy sensors, lighting control panels, building automation systems
Dimensions (L x W x H)	4.25 x 3 x 2.5 inches
Weight	8.64 ounces
Color	White
Material	Metal (Contact Material), Either Brass, Stainless Steel, or Alloy Steel (Housing)
Specification Met	RoHS
UPC	754182938049

## WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact Wattstopper directly through their official website or customer service channels. Keep your purchase receipt as proof of purchase.