

# AS-100 – AUTOMATIC CONTROL SWITCH



This is the automatic control switch. The IntelliSwitch® AS-100 Automatic Control Switch operates as both a manual and automatic control device. Manually, it allows users to control loads on/off. Automatically, it receives signals to turn lighting on or off from lighting control panels or other lighting control systems.

The AS-100 replaces a standard wall switch. Occupants turn the lights on and off manually by its pushbutton. However, when a timed power interrupt signal is received from a lighting control panel, the AS-100 is automatically commanded to turn on, turn off or delay off. The duration of the power interrupt signal determines how the AS-100 will operate.

Used with a lighting control panel, the AS-100 allows users to manually turn lighting on in private offices, while lighting in common areas turns on automatically. After hours, if lights were not shut off by users, a signal from the control panel would command the switch to delay off. Lighting “blink” warns users that lights will turn off in five minutes. **Check out Wattstopper DLM products here.**

- Settings are selected with the front pushbutton using configuration LEDs; face plate does not need to be removed for setup
- Users can select automatic-on operation, and an audible beep warning

- Selectable beep warning sounds every minute during last five minutes, and every five seconds during last minute
  - Five minute delay-off time with user ability to cancel impending shutoff
  - Self-adjusting zero crossing switching for consistent, reliable operation of high inrush loads
  - Can be used in 3-way, 4-way and multiway switching applications
  - Compatible with all electronic ballasts and motor loads
  - Microcontroller enhances reliability
  - Command off without delay off time
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## **BZ-150 UNIVERSAL VOLTAGE POWER PACK**



This is the Wattstopper universal voltage power pack. The BZ-150 Universal Voltage Power Pack is full featured and can provide 24 VDC operating voltage to Wattstopper's low voltage occupancy sensors. In addition, the BZ-150 enables manual-on, hold-on, hold-off and load shed applications when used with lighting control panels or building management systems. This device is constructed with environmentally friendly materials and is RoHS-compliant.

The BZ-150 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 turns the connected load on and off automatically based on occupancy sensor input, or manually with a low-voltage momentary switch. The dip switch setting allows the user to select Auto ON or Manual ON as the operating mode. Additional low-voltage inputs provide hold-on and hold-off features for broader applications.

- 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
- Hold-on and hold-off inputs integrate with BMS, lighting control panels & other building systems
- Integrates with low-voltage momentary switch to control any 24VDC occupancy sensor
- The product meets the materials restrictions of RoHS
- Provides auto-on or manual-on field-selectable operating mode
- 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
- BAA/TAA-compliant models available

For other items like the BZ-150 UNIVERSAL VOLTAGE POWER PACK [click here](#).

For more information on Wattstopper's line of lighting solutions [click here](#).

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# BZ-200 – LIGHTING & PLUG LOAD POWER PACK



This is the lighting & plug load power pack. The BZ-200 power pack switches connected loads On and Off in response to Wattstopper low voltage occupancy sensors. It also provides up to 225mA at 24VDC to power the sensors. This device is constructed with environmentally friendly materials and is RoHS-compliant.

The BZ-200 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 integral On / Off button to switch out power, allowing the installer to quickly verify load operation. Following installation, the power pack turns the connected load On and Off automatically based on occupancy sensor input. **Check out Wattstopper DLM products here.**

- Efficient switching power supply provides optimized current output based on number of sensors
- Includes short circuit and thermal protection
- LED indicates status of relay or presence of low-voltage overcurrent
- UL 2043 plenum rated for cost-effective installation
- UL listed for control of lighting and plug loads
- Tested to NEMA 410 criteria for electronic ballast and driver inrush current
- 1/2" threaded nipple attaches to standard electrical enclosures through 1/2" knockouts
- 12 AWG wires on the relay for 20A operation

- The product meets the materials restrictions of RoHS
  - BAA/TAA-compliant models available
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## **BZ-250 – LIGHTING & PLUG LOAD FLEX CONTROL POWER PACK**



This is the lighting & plug load flex control power pack. The BZ-250 power pack switches lighting or plug loads On and Off in response to low voltage control inputs, and provides up to 225mA at 24VDC to power Wattstopper occupancy sensors. It enables Manual-On sequences of operation, as well as HoldOn, Hold-Off and load shed applications when used with lighting control panels or building automation systems. This device is constructed with environmentally friendly materials and is RoHS-compliant.

The BZ-250 consists of a high-efficiency switching power supply and a high-current relay. It turns the connected load Off automatically based on occupancy sensor input, and On either automatically based on occupancy, or manually in response to a low-voltage momentary switch. The installer can select Auto-On or Manual-On operation via an actuator switch on the power pack. The BZ-250 also accepts low-voltage Hold-On and Hold-Off inputs for broader applications. The BZ-250 relay can be set to open, close or maintain state prior to loss of power, so that lighting is in the preferred state (On, Off or

last state) when power is restored. **Check out Wattstopper DLM products here.**

- Hold-On and Hold-Off inputs integrate with BAS, lighting control panels & other building systems
- Integrates with low-voltage momentary switch to control any 24VDC occupancy sensor
- Field-selectable Auto-On or Manual-On operation
- Efficient switching power supply provides optimized current output based on number of sensors
- Includes short circuit and thermal protection
- LED indicates status of relay or presence of low-voltage overcurrent
- UL 2043 plenum rated for cost-effective installation
- UL listed for control of lighting and plug loads
- Tested to NEMA 410 criteria for electronic ballast and driver inrush current
- 1/2" threaded nipple attaches to standard electrical enclosures through 1/2" knockouts
- 12 AWG wires on the relay for 20A operation
- The product meets the materials restrictions of RoHS
- BAA/TAA-compliant models available

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## **CD-250 – PIR DIMMING MULTI-WAY WALL SWITCH VACANCY SENSOR**



This is the PIR dimming multi-way wall switch vacancy sensor. The CD-250 PIR Dimming Multi-Way Vacancy Sensor provides preset dimming control and automatic lighting shutoff for a variety of applications including those with multiple switch locations. It is engineered to comply with specific provisions of California's Title 24-2013 energy code. The CD-250 operates as a manual-on sensor. Users must press the pushbutton to turn on lighting. Once lighting is on, the dimming level may be adjusted by pressing and holding the pushbutton. The CD-250 employs PIR technology to sense the difference between the infrared energy from a person in motion and the background space. It keeps lighting on as long as motion is detected and provides automatic shutoff, following a user selected time delay, when motion is no longer detected. Users may turn the lighting off manually. The next time the CD-250 is turned on, the lighting will come on to the last light level. The CD-250 can dim incandescent loads from a minimum level of 10% to a maximum level of 100%. When the pushbutton is pressed and held, the CD-250 will fade the lights up and down in a continuous cycle until the pushbutton is released. The dimming direction may be reversed by momentarily releasing the pushbutton and then pressing it again. Lighting may be controlled from multiple locations by connecting additional CD-250s and/or RH-253 Single Pole Momentary Switches. When additional CD-250s are connected, each device provides full on/off and dimming control. Connected RH-253s provide on/off control only. **Check out Wattstopper DLM products here.**

- Replaces single- or multi-pole switches or incandescent dimmers
- Provides multi-way control when used with other CD-250s

or RH-253s

- Adjustable time delay, 15 seconds to 30 minutes
- Lighted switch for visibility in darkened rooms
- Low-profile styling
- Choice of five decorator colors; lens is color matched to device
- Soft-start technology to prolong lamp life
- Air gap isolation switch for safe re-lamping
- Compatible with decorator wall plates
- CA Title 24 compliant

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## **CH-250 – PIR MULTI-WAY WALL SWITCH VACANCY SENSOR**



This is the PIR multi-way wall switch vacancy sensor. The CH-250 Passive Infrared (PIR) Multi-way Vacancy Sensor provides automatic lighting shutoff for a variety of applications including those with multiple switch locations. It is engineered to comply with specific provisions of California's Title 24-2013 energy code. The CH-250 operates as a manual-on sensor. Users must press the pushbutton to turn on lighting. The CH-250 employs PIR technology to sense the difference between the infrared energy from a person in motion and the background space. It keeps lighting on as long as motion is detected and provides automatic shutoff, following a user-selected time delay, when motion is no longer detected.

Users may turn the connected load off manually. A CH-250 connected to other CH-250s and/or RH-253 Decorator Single Pole Momentary Switches provides true multi-way on/ off control. An occupant simply presses the on/off pushbutton of any connected device to turn on the lighting. Lights remain on as long as one of the CH-250s continues to detect occupancy. The user may turn off the lighting by pressing the on/off button on any of the connected devices. If the room becomes vacant and lights are on, they will be switched off automatically following the time delay of the last CH-250 to detect occupancy. **Check out Wattstopper DLM products here.**

- Complies with 2011 NEC requirements
- Replaces single- or multi-pole switches
- Provides multi-way control when used with other CH-250s or RH-253s
- Adjustable time delay, 15 seconds to 30 minutes
- Lighted switch for visibility in darkened rooms
- Low-profile styling
- Choice of five decorator colors; lens is color-matched to device
- Operates most common types of lighting
- Relay-based switching
- No current leakage to load in off mode for safety
- Compatible with decorator wall plates
- CA Title 24 compliant

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## **CI-205-1 – PASSIVE INFRARED CEILING SENSOR**



This is the passive infrared ceiling sensor. Wattstopper's CI-200 Series Passive Infrared (PIR) Ceiling Sensors provide 360° coverage to detect occupancy in the controlled area. These low-profile sensors reliably control lighting in a variety of applications.

The CI-200 Series Sensors are 24 VDC and control lighting through Wattstopper power packs. Utilizing the latest PIR technology, they turn lighting on when a difference is detected between the infrared energy from a human being in motion and the background space within the controlled area. After the area is vacated for a user-adjustable time delay, lighting automatically turns off. **Check out Wattstopper DLM products here.**

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## **CI-355 – PASSIVE INFRARED LINE VOLTAGE CEILING SENSOR**



This is the passive infrared line voltage ceiling sensor. Wattstopper's CI-355 passive infrared (PIR) occupancy sensor

automatically turns lighting on and off based on occupancy. The sensor mounts on the ceiling with a flat, low-profile appearance and provides 360 degrees of coverage.

The CI-355 is line voltage and operates on a single phase at 120, 230, 277 or 347 VAC. The sensor uses passive infrared technology (PIR) to sense occupancy and automatically turn lighting on. PIR works by sensing the difference between infrared energy from a human body in motion and the background space. When no occupancy is detected for the length of the time delay, lighting automatically turns off. **Check out Wattstopper DLM products here.**

CI-355 – 360° up to 1200 ft<sup>2</sup>

CI-355-1 – 360° up to 500 ft<sup>2</sup>

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## **CS-50 – PIR WALL SWITCH VACANCY SENSOR**



This is the PIR wall switch vacancy sensor. The CS-50 Passive Infrared (PIR) Vacancy Sensor provides automatic shutoff for single-pole lighting control applications. It is engineered to comply with specific provisions of California's Title 24-2013 energy code. The CS-50 operates as a manual-on sensor. Users must press the pushbutton to turn on lighting. The CS-50 employs PIR technology to sense the difference between the

infrared energy from a person in motion and the background space. It keeps lighting on as long as motion is detected and provides automatic shutoff, following a user-selected time delay, when motion is no longer detected. Users may turn the lighting off manually. The CS-50 is shipped preset for a 30 minute time delay, and does not require any adjustment after installation. If desired, the time delay may be easily reduced to 25, 20, 15, 10 or 5 minutes or to 30 seconds. The time delay should be set relative to the anticipated duration of stay and level of activity in the room; 30 minutes for guest room and executive restroom, and 5 to 10 minutes for pantries and laundry rooms. **Check out Wattstopper DLM products here.**

- Replaces single-pole switches
- Adjustable time delay, 30 seconds to 30 minutes
- If enabled, status indicator blinks when motion is detected
- Low-profile styling
- Choice of five decorator colors; lens is color-matched to device
- Operates most common types of lighting or fan motors
- Relay-based switching
- No current leakage to load in off mode for safety
- Compatible with decorator wall plates
- CA Title 24 compliant

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**DSW-200 – DUAL TECHNOLOGY  
WALL SWITCH SENSOR W/ 2-**

# RELAYS



This is the dual technology wall switch sensor w/ 2-relays. The DSW-200 dual technology wall switch sensor turns lights ON and OFF based on occupancy and contains two relays for controlling two independent lighting loads or circuits. It combines the benefits of passive infrared (PIR) and ultrasonic detection technologies for high sensitivity to small and large movements. The DSW-200 replaces existing wall switches and fits a standard decorator wall plate.

Each of the DSW-200's relays can control a separate lighting load. By default, when the PIR sensor detects occupancy, relay 1 turns ON automatically. Detection by either PIR or ultrasonic technology holds lights ON. When occupancy is no longer detected and the time delay elapses, lights automatically turn OFF. Dual ON/OFF buttons allow the user to turn on and off each of the loads manually. DIP switch settings allow for a variety of control options such as Auto-ON or Manual-ON for each relay, walk-through, and test mode. **Check out Wattstopper DLM products here.**

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## **DSW-301 – DUAL TECHNOLOGY**

# WALL SWITCH OCCUPANCY SENSOR



This is the dual technology wall switch occupancy sensor. The DSW-301 dual technology wall switch sensor turns lights OFF and ON based on occupancy. It combines the benefits of passive infrared (PIR) and ultrasonic detection technologies. The DSW-301 replaces existing wall switches and fits behind a standard decorator wall plate. Once the lights are ON, detection by either technology holds lights ON until occupancy is no longer detected and the time delay elapses. Factory default operation is for Manual-ON, so that users must turn lights on. DIP switch settings allow for a variety of control options including Auto-ON operation, walk-through and test mode. In Auto-ON mode, the DSW-301 turns lighting on when the PIR sensor detects occupancy. Additional DIP switch settings allow the user to choose which sensing technologies hold ON or retrigger the lighting. Multiple sensors may be used for control of one or more loads from up to four locations. The DSW-301 sensor uses a patent pending Neutral Sense Technology. Any DSW-301 sensor can be used for a two-wire or three wire application, either to work with existing wiring, or to meet local or national code requirements. An easy-to-break plastic tab covers neutral screw terminals. Once the sensor is connected to neutral it complies with all codes that restrict current leakage to ground. **Check out Wattstopper DLM products here.**

- Complies with 2011 NEC requirements
- Zero-crossing for long relay life
- Vandal resistant lens combines precise coverage with

durability

- Selectable walk-through mode turns lights off three minutes after initial occupancy if no motion is detected after the first 30 seconds
- Test mode allows quick and easy adjustments
- Selectable audible alert for impending shutoff
- In automatic mode, sensor returns automatically to Auto-ON after lights are turned off manually; ideal for presentations
- Four occupancy logic options to customize control to meet application needs
- Optional light level sensing with simple setup
- Service mode allows sensor to operate as a service switch in the unlikely event of a failure
- Sensor coverage tested to NEMA Guide Publication WD 7-2000

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## **DSW-302 – DUAL TECHNOLOGY DUAL RELAY WALL SWITCH OCCUPANCY SENSOR**



This is the dual technology dual relay wall switch occupancy sensor. The DSW-302 dual technology wall switch sensor turns lights ON and OFF based on occupancy and contains two relays for controlling two independent lighting loads or circuits. It

combines the benefits of passive infrared (PIR) and ultrasonic detection technologies for high sensitivity to small and large movements. The DSW-302 replaces existing wall switches and fits a standard decorator wall plate. Each of the DSW-302's relays can control a separate lighting load. By default, when the PIR sensor detects occupancy, relay 1 turns ON automatically. Remaining lighting must be turned on manually. Detection by either PIR or ultrasonic technology holds lights ON. When occupancy is no longer detected and the time delay elapses, lights automatically turn OFF. Dual ON/ OFF buttons allow the user to turn on and off each of the loads manually. DIP switch settings allow for a variety of control options such as Auto-ON or Manual-ON for each relay, walkthrough, and test mode. Multiple sensors may be used for control of one or more loads from up to four locations. The DSW-302 sensor uses a patent pending Neutral Sense Technology. Any DSW-302 sensor can be used for a two-wire or three wire application, either to work with existing wiring, or to meet local or national code requirements. An easy-to-break plastic tab covers neutral screw terminals. Once the sensor is connected to neutral it complies with all codes that restrict current leakage to ground. **Check out Wattstopper DLM products here.**

- Complies with 2011 NEC requirements
- Zero-crossing on both relays for long relay life
- Vandal resistant lens combines precise coverage with durability
- Selectable walk-through mode turns lights off three minutes after the room is initially occupied if no motion is detected after the first 30 seconds
- Selectable audible alert for impending shutoff
- In automatic mode, sensor returns automatically to Auto-ON after lights are turned off manually; ideal for presentations
- Test mode allows quick and easy adjustments
- Four occupancy logic options to customize control to meet application needs

- Optional light level sensor holds secondary lights off when ambient lighting is above the preset level
- Service mode allows sensor to operate as a service switch in the unlikely event of a failure
- Sensor coverage tested to NEMA Guide Publication WD 7-2000