

# Occupancy Sensors



meets energy codes • supports sustainable designs  
• saves energy

 **WattStopper**

 **legrand**<sup>®</sup>

# The NEW generation of occupancy sensors:

Watt Stopper/Legrand's new generation of occupancy sensors are packed with features and options that streamline sensor installation and strengthen performance - yet fit in a small, clean package.

## Low profile design

Attractive new enclosures offer a flat, extremely low profile appearance that leaves the ceiling clean and uncluttered.

## 360° coverage

With a full 360° of coverage, these sensors are able to control a wide range of applications, either individually, or for large areas, in zones that overlap.

## SmartSet™ technology

Watt Stopper SmartSet technology means no adjustments are needed at installation. SmartSet monitors the space to identify usage patterns. With this information, it automatically adjusts the time delay and sensitivity settings for both optimal performance and maximum energy efficiency.

## Walk-through mode

The lights don't need to stay on for the entire length of the time delay if someone is just dropping off mail or other items. With our smart Walk Through Mode, lights turn off 3 minutes after an area is initially occupied if no movement is detected within 30 seconds.



# Quick terminal wiring

Terminal wiring and depluggable terminal wiring are featured throughout our new generation of occupancy sensors. Quick and easy installations are now the new standard.



# Low & line voltages

Low voltage sensors are well suited in most applications. The simplicity of low voltage wiring allows for optimal placement. However, some applications, because of installer preference, are better suited to line voltage ceiling mount sensors. Our new generation of sensors are available in both line and low voltage models to match each and every application and installation style.



# Diffusers

Both the ultrasonic and dual technology sensors benefit from the new Ultrasonic Diffusers. The diffusers are able to evenly distribute the ultrasound in order to achieve a more comprehensive coverage of the controlled area.

# One touch light level

Many occupancy sensors contain a built-in light level sensor. Our new generation sensors incorporate this feature PLUS a unique one-touch set up.

# Manual operation

When the application calls for manual on/off control in addition to the occupancy based control, the new generation sensors do the job. They offer the convenience of a low voltage switch input (on the low voltage sensor models) so that wiring to a momentary wall switch is quick and easy.

# Occupancy sensor technologies



## Passive infrared ceiling mount sensors

Many Watt Stopper PIR sensors are enhanced with advanced technologies to ensure higher sensitivity to minor motion without the potential for false activations. These include Detection Signature Analysis and Pulse Count Processing.

- WPIR
- CX series
- CI-200 series
- CI-300 series
- CB-100

## Passive infrared technology (PIR)

PIR technology senses occupancy by detecting the difference between heat emitted from the human body in motion and the background space.

Relying on a clear line-of-sight view, passive infrared sensors make 100% coverage cut off possible. These sensors utilize a unique Fresnel lens which divides the coverage area into zones, enhancing detection of small movement.

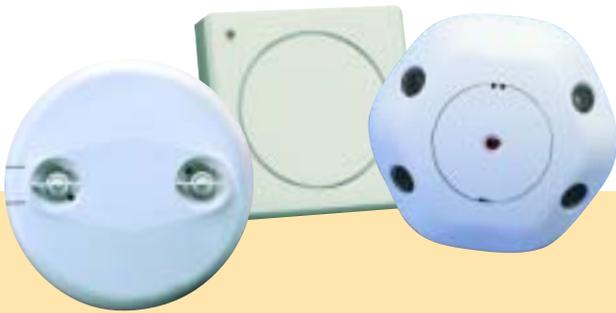


## Wall switch technologies

Watt Stopper automatic wall switches incorporate features, such as Zero Crossing, that increase the switch's life and enhances reliability. They also offer features such as terminal style wiring, which simplifies installation, and SmartSet technology, which automatically adjusts time delays and sensitivity based on usage patterns.

- WS-200
- WA-200, WA-300
- WI-200, WI-300
- WN-100-120/277
- WD series

## Ultrasonic technology



Using the Doppler principle, ultrasonic sensors work by bouncing ultrasonic sound waves off objects in an area and measuring the time it takes for the waves to return. Movement by a person in the area causes the sound waves to return at a changed frequency, resulting in a Doppler shift and occupancy detection.

### Ultrasonic technology

These sensors utilize our Advanced Signal Processing Circuitry to automatically adjust the signal detection threshold in compensation for changing levels of activity and airflow. This helps eliminate false ON activations common in other ultrasonic sensors.

W series

WT series

UT-300 series

## Dual technology

While PIR and ultrasonic sensors provide optimal control for a variety of spaces, some applications pose difficulty for single technology sensors.

We created and patented Dual Technology – a combination that takes advantage of the best features of both PIR and ultrasonic technologies. Using the Dual Sensing Verification Principle, both technologies must detect occupancy to turn lighting on, while continued detection by only one technology will hold lighting on.



### Dual technology

Dual Technology sensors ensure the greatest sensitivity and coverage for tough applications, without the threat of false triggers. This leads to the greatest energy savings.

DT-200 series

DT-300 series

# Applying occupancy sensors

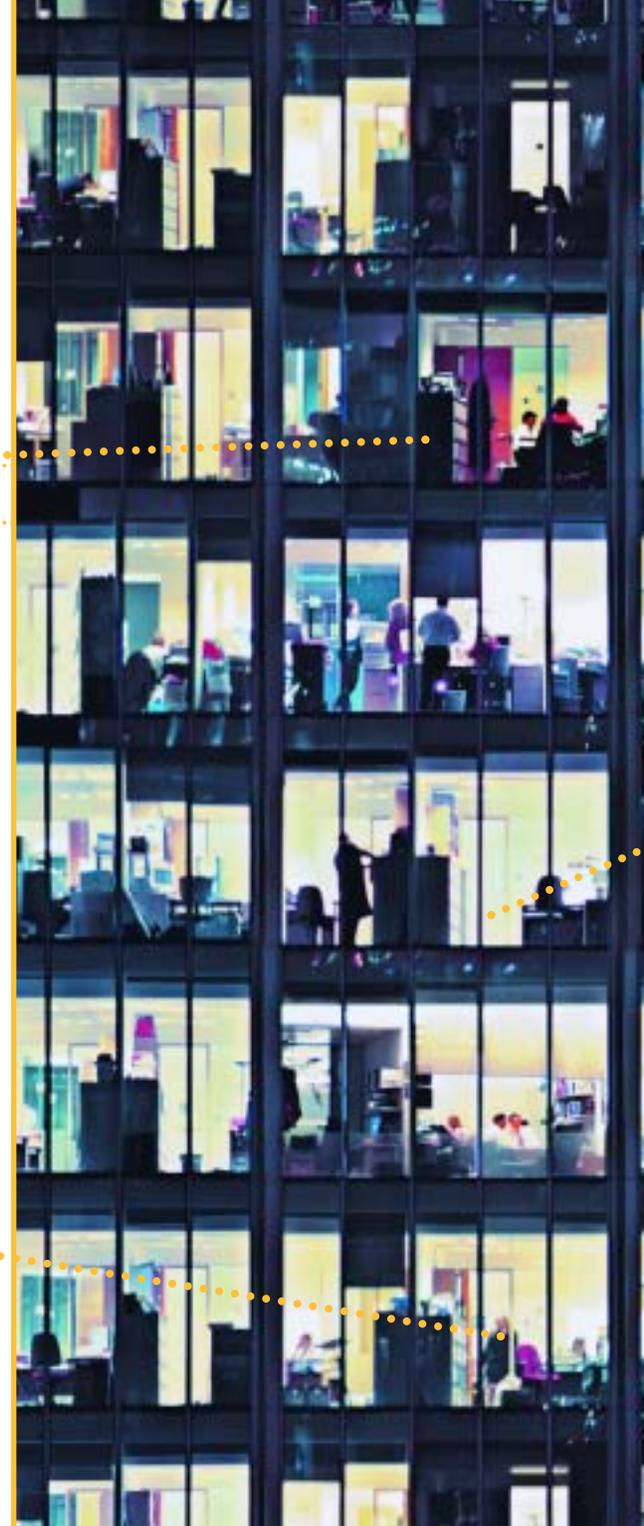


In **offices** where the wall switch has a view of the work space, replace the switch with a passive infrared wall switch sensor. Take advantage of the built-in light level feature to keep lights off when ample sunlight is present.

Control lighting in **restrooms** with ultrasonic sensors and eliminate hours of unneeded on-time. Ceiling-mounted ultrasonics can sense motion around restroom stalls for reliable coverage.



In **open or partitioned offices**, use ultrasonic or dual technology sensors. Placed on the ceiling, these sensors cover the area in zones that overlap.



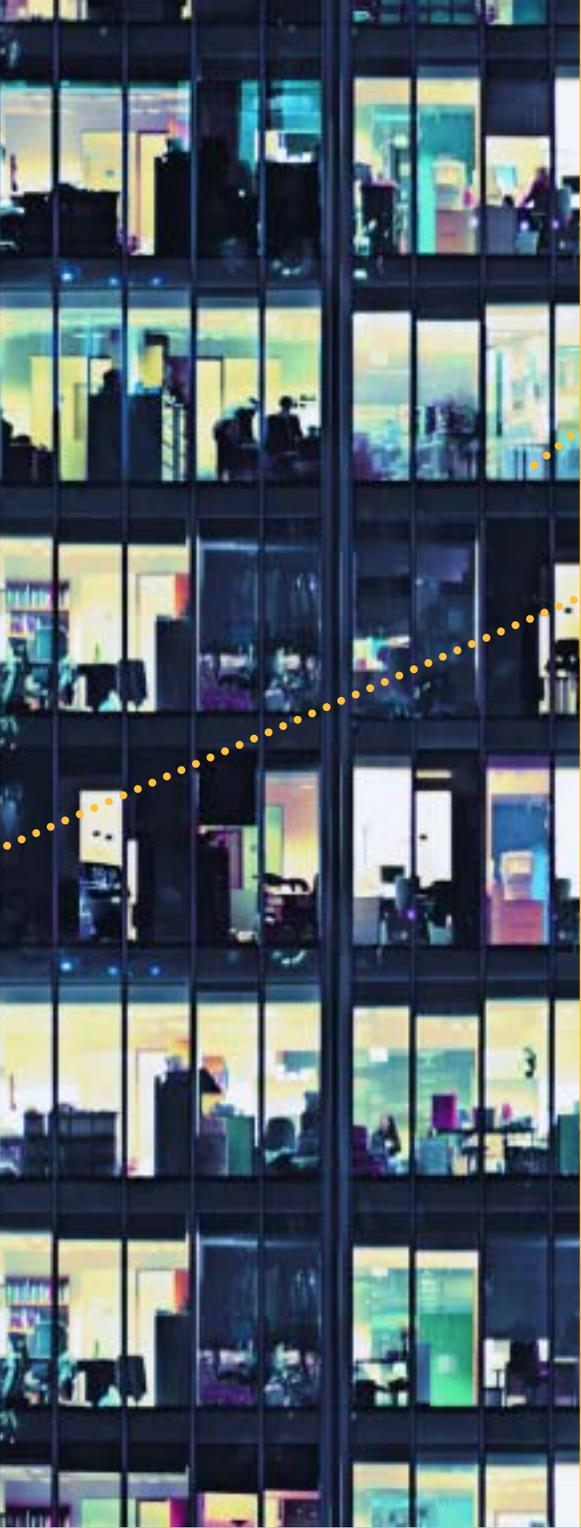
## PIR Best Applications

- Warehouses
- High ceiling mount locations
- Library bookstack or other aisles
- Common building areas
- Lobbies
- Computer rooms



## PIR Wall Switch Best Applications

- Offices
- Copy rooms and other common building areas
- Storage closets
- Small conference rooms



Common building spaces, such as **copy rooms**, are ideal for occupancy based control. With a passive infrared sensor placed in the corner of the ceiling or as a wall switch replacement, users can save hours of wasted lighting each day.



In large **conference rooms**, occupants may be still for long periods of time. Dual technology sensors will be able to detect the small motion and keep lights on as long as the space is occupied.

Use occupancy sensors together with other control methods such as lighting control panels or daylighting controls. **Integrating control options** can help you meet energy codes and sustainability guidelines as well as maximize energy savings.

In **warehouses**, a passive infrared sensor mounted to a ceiling or fixture will control the lighting between shelves – so that lighting in unoccupied areas will turn off or turn to a lower level. Users can achieve this control with fluorescent as well as HID lighting.



### Ultrasonic Best Applications

- Restrooms
- Open office spaces
- Offices
- Enclosed hallways
- Stairways



### Dual Technology Best Applications

- Classrooms
- Large conference rooms
- Large offices
- Lunch rooms

# WS-200 Automatic Wall Switch



Attractive, low-profile appearance

Built-in light level sensor

Terminal style wiring for easy installation

Adjustable sensitivity

Zero Crossing Circuitry increases longevity

ASIC technology

## Specifications

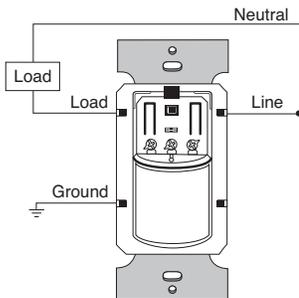
- Dual 120/277 voltage
- 30 sec to 30 min time delay
- Built-in light level sensor 2 to 200 fc (107 to 1,614 lux)
- No minimum load requirement
- Compatible with all electronic ballasts and PL lamp ballasts
- 2.6" x 1.7" x 2" L x W x D (66.0mm x 44.2mm x 50.8mm)
- UL and CUL listed, 5 year warranty

## Applications

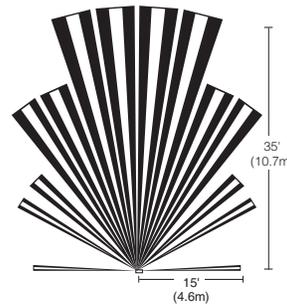
- Small offices
- Small conference rooms
- Break rooms
- Utility rooms
- Storage closets

## Wiring Diagram

The WS-200 can be wired for single-level lighting (shown), or for manual bi-level control.



## Coverage Pattern



Coverage shown is for half-step, walking motion, maximum of 900 sq ft. For typical, desktop activity, when mounted at 4 ft (1.2m), coverage is 300 ft<sup>2</sup> (27.9 m<sup>2</sup>).

## Order Information

CATALOG #	VOLTAGE*	LOAD REQUIREMENTS	COVERAGE*
WS-200	120 VAC; 60 Hz or 277 VAC; 60 Hz	0-800 Watt Ballast or 0-1200 Watt Ballast	up to 900 ft <sup>2</sup> (83.6 m <sup>2</sup> ), 180°

Add -I to Cat. # for Ivory, -W for White, -A for Light Almond, -G for Grey, -B for Black; Single-gang cover plate ASP-211 included. Order ASP-422 for blank 2-gang cover plate, ASP-432 for 2-gang cover plate with switch option, specify color. \*Models for 220-240 VAC (WS-230) and 347 VAC (WS-347) are available.

# WA Automatic Wall Switches

SmartSet™ automatically selects optimal settings for each space

Choice of Auto-ON or Manual-ON operation

Built-in light level sensor

Selectable walk-through mode for increased savings



Terminal style wiring simplifies installation

Two relays and dual switch buttons control two separate lighting loads or circuits (WA-300)

Audible and/or visual alerts of impending shut-off

Vandal resistant hard lens

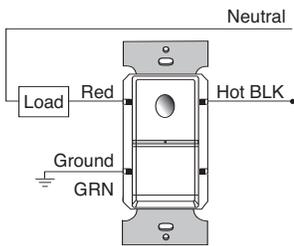
## Specifications

- Universal 100-300 VAC; 50/60 Hz operation
- 1.0mm hard poly IR2 lens
- SmartSet (automatic) time delay or fixed (5-30 minute)
- SmartSet (automatic) or reduced sensitivity
- Zero Crossing Circuitry
- Built-in light level sensor 8 to 180 fc (86 to 1,937 lux)
- No minimum load requirement
- Compatible with all electronic ballasts and PL lamp ballasts
- 2.6" x 1.7" x 1.9" (66.0mm x 43.2mm x 48.3mm)
- UL and CUL listed, 5 year warranty

## Applications

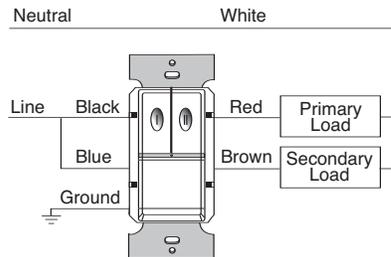
- Public area offices
- Small offices
- Small conference rooms
- Storage closets

## WA-200 Wiring



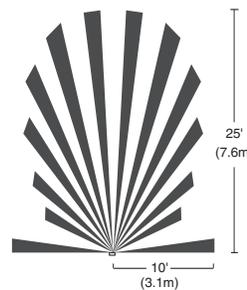
The WA-200 can be wired for single-level lighting (shown), or for manual bi-level control.

## WA-300 Wiring



The WA-300 can be wired for bi-level (shown) or dual circuit control.

## Coverage Pattern



Coverage shown is for half-step, walking motion, maximum of 300 ft<sup>2</sup>. Typical coverage at the desktop level when mounted at 4 ft is 150 ft<sup>2</sup>.

## Order Information

CATALOG #	DESCRIPTION	VOLTAGE	LOAD REQUIREMENTS	COVERAGE
WA-200	Automatic wall switch	100/120 VAC; 50/60 Hz or 230/277 VAC; 50/60 Hz	0-800 Watt Ballast or 0-1200 Watt Ballast	up to 300 ft <sup>2</sup> (28 m <sup>2</sup> )
WA-300	Automatic wall switch, dual relays	100/120 VAC; 50/60 Hz or 230/277 VAC; 50/60 Hz	0-800 Watt Ballast or 0-1200 Watt Ballast	up to 300 ft <sup>2</sup> (28 m <sup>2</sup> )

Add -I to Cat. # for Ivory, -W for White, -A for Light Almond, -G for Grey, -B for Black; Single-gang cover plate ASP-211 included. Order ASP-422 for blank 2-gang cover plate, ASP-432 for 2-gang cover plate with switch option, specify color.

# WI Automatic Wall Switches



Choice of auto-ON or manual-ON operation

4 level lens for superior desktop detection

Built-in light level sensor

Two relays for control of two separate lighting loads or circuits (WI-300)

DIP switch adjustable sensitivity and time delay

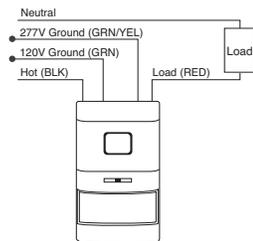
## Specifications

- Dual 120/277 VAC
- Time delay of 15 sec to 30 min (WI-200); 30 sec to 30 min (WI-300)
- Built-in light level sensor 10 to 150 fc (107 - 1,614 lux) (on secondary relay of WI-300)
- LED indicator
- No minimum load requirement
- Compatible with all electronic ballasts and PL lamp ballasts
- 2.8" x 4.8" x 1.5" (72.1mm x 121.9mm x 38.1mm)
- UL and CUL listed, 5 year warranty

## Applications

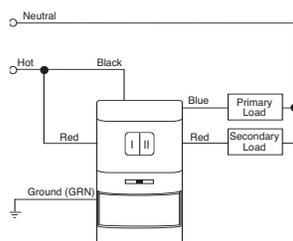
- Offices
- Conference rooms

## WI-200 Wiring



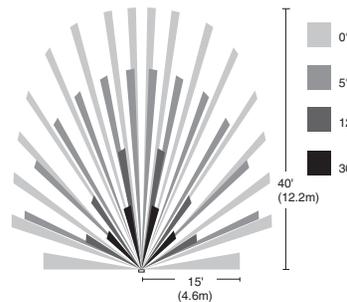
The WI-200 can be wired for single-level lighting (shown), or for manual bi-level control.

## WI-300 Wiring



The WI-300 can be wired for bi-level (shown) or dual circuit control.

## Coverage Pattern



4-level Fresnel lens detects horizontal and vertical motion. Maximum coverage under ideal conditions and for half-step walking motion is 1000 ft<sup>2</sup>.

## Order Information

CATALOG #	DESCRIPTION	VOLTAGE	LOAD REQUIREMENTS	COVERAGE
WI-200	Automatic wall switch	120 VAC; 60 Hz or 277 VAC; 60 Hz	0-800 Watt Ballast or 0-1200 Watt Ballast	up to 1000 ft <sup>2</sup> (92.9m <sup>2</sup> ) 180°
WI-300	Automatic wall switch, dual relays	120 VAC; 60 Hz or 277 VAC; 60 HZ	0-800 Watt Ballast or 0-1200 Watt Ballast	up to 1000 ft <sup>2</sup> (92.9m <sup>2</sup> ) 180°

Add -W to cat # for White, -A for Light Almond; Order ASP-121 for blank switch 2-gang box plate; Order ASP-122 for 2-gang box plate with switch option (WI-200 only)

# WN Motion Sensor Nightlight Switch



Manual-on or automatic-on operation

Energy efficient, super bright LED

Built in nightlight illuminates whenever overhead lights are off

Adjustable time delay from 15 minutes to 2 hours

Impact resistant hard lens

Terminal wiring for quick and easy installation

Zero Crossing Circuitry increases product longevity

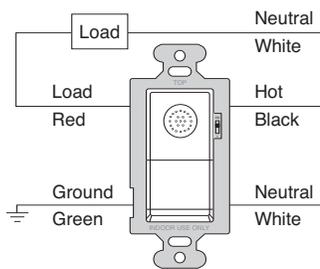
## Specifications

- 120 or 277 VAC, 60 Hz
- Time delay of 15 min, 30 min, 1 hour or 2 hours
- 1.0mm hard poly IR2 lens
- 2.63" x 1.69" x 1.88" (66.8mm x 42.9mm x 47.8mm)
- UL and CUL listed, 5 year warranty

## Applications

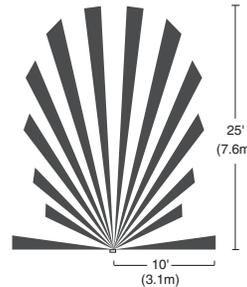
- Hotel guest bathrooms
- Military housing
- Healthcare facilities

## Wiring Diagram



The WN-100 can be wired for single-level lighting (shown), or for manual bi-level control.

## Coverage Pattern



The WN-100 has a coverage range of 180° and a maximum coverage area of 300 ft<sup>2</sup>. To maintain its coverage capacity and optimally detect motion, the WN-100 must have a clear and unobstructed view of occupants.

## Order Information

CATALOG #	VOLTAGE	LOAD REQUIREMENTS	COVERAGE
WN-100-120	120 VAC; 60 Hz	0-500W incandescent, fluorescent and compact fluorescent	up to 300 ft <sup>2</sup> (28 m <sup>2</sup> ), 180°
WN-100-277	277 VAC; 60 Hz	0-1200W incandescent, fluorescent and compact fluorescent	up to 300 ft <sup>2</sup> (28 m <sup>2</sup> ), 180°

Add -I to Cat. # for Ivory, -W for White, -A for Light Almond; Single-gang cover plate ASP-211 included. Order ASP-422 for blank 2-gang cover plate, ASP-432 for 2-gang cover plate with switch option, specify color.

# WD Dimmable Automatic Switch



Occupancy sensing dimmable wall switch

Slide dimmer adjusts light level

Low profile, flat decorator design

Zero voltage turn on/off increases life of sensor

Works with dimming ballasts

Vandal resistant, hard lens

ASIC enhances reliability and helps to eliminate false triggers

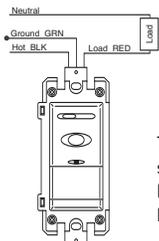
## Specifications

- WD-170, WD-270 operate at 120 VAC; WD-180, WD-280 operate at 277 VAC
- WD-170/180 time delay of 30 sec to 30 min
- WD-270/280 fixed initial 15 min delay for dim; secondary adjustable delay (5 min to 30 min) for off
- 1.0 mm hard poly IR 2 lens
- LED indicator
- Adjustable sensitivity
- 2.7" x 1.8" x 2.2" (68.9mm x 45.7mm x 55.9mm)
- UL and CUL listed, 5 year warranty

## Applications

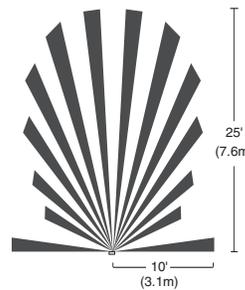
- Small offices
- Public area offices
- Small conference rooms

## Wiring Diagram



The WD can be wired for single-level lighting (shown) or for manual bi-level control.

## Coverage Pattern



Coverage shown is for half-step, walking motion, maximum of 300 ft<sup>2</sup>. Typical coverage at the desktop level when mounted at 4 ft is 150 ft<sup>2</sup>.

## Order Information

CATALOG #	VOLTAGE	LOAD REQUIREMENTS	COVERAGE	OFF MODE
WD-170	120 VAC; 60 Hz	10-500 W Ballast	up to 300 ft <sup>2</sup> (28 m <sup>2</sup> )	Automatic-OFF
WD-180	277 VAC; 60 Hz	10-500 W Ballast	up to 300 ft <sup>2</sup> (28 m <sup>2</sup> )	Automatic-OFF
WD-270	120 VAC; 60 Hz	10-500 W Ballast	up to 300 ft <sup>2</sup> (28 m <sup>2</sup> )	Dim-bef-disconnect
WD-280	277 VAC; 60 Hz	10-500 W Ballast	up to 300 ft <sup>2</sup> (28 m <sup>2</sup> )	Dim-bef-disconnect

Add -I to Cat. # for Ivory, -W for White, -A for Light Almond; Single-gang cover plate ASP-211 included. Order ASP-422 for blank 2-gang cover plate, ASP-432 for 2-gang plate with switch option, specify color.

# CN, CW Vacancy Sensors for Residential Use

Manual-on/automatic-off operation; lights cannot be overridden ON

CN contains energy efficient nightlight that illuminates whenever overhead lights are off

Simple pushbutton programming



Adjustable time delay from 1 to 30 minutes

Impact resistant hard lens

CEC 2005 Title 24 compliant

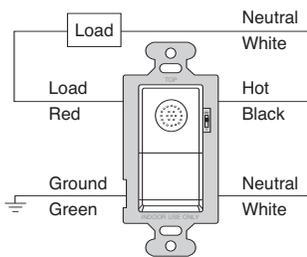
## Specifications

- 120 VAC, 60 Hz
- Time delay of 1 min to 30 min
- 1.0mm hard poly IR2 lens
- Compatible with 0-500W incandescent, fluorescent, compact fluorescent, MLV, and ELV loads
- No minimum load requirement
- 2.63" x 1.69" x 1.88" (66.8mm x 42.9mm x 47.8mm)
- UL and CUL listed, 5 year warranty

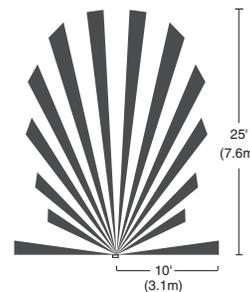
## Applications

- |                 |            |
|-----------------|------------|
| CW              | CN         |
| • Hallways      | • Bathroom |
| • Laundry rooms | • Bedrooms |
| • Garages       |            |

## Wiring Diagram



## Coverage Pattern



The sensors have a coverage range of 180° and a maximum coverage area of 300 ft<sup>2</sup>. To maintain its coverage capacity and optimally detect motion, the sensor must have a clear and unobstructed view of occupants.

## Order Information

CATALOG #	DESCRIPTION	VOLTAGE	LOAD REQUIREMENTS	COVERAGE
CN-100	Residential vacancy sensor with nightlight	120 VAC; 60 Hz	0-500W incandescent, fluorescent and compact fluorescent	up to 300 ft <sup>2</sup> [28 m <sup>2</sup> ], 180°
CW-100	Residential vacancy sensor	120 VAC; 60 Hz	0-500W incandescent, fluorescent and compact fluorescent	up to 300 ft <sup>2</sup> [28 m <sup>2</sup> ], 180°

Add -I to Cat. # for Ivory, -W for White, -A for Light Almond. Single-gang cover plate ASP-211 included. Order ASP-422 for blank 2-gang cover plate, ASP-432 for 2-gang cover plate with switch option, specify color.

# WPIR Passive Infrared Sensor

PIR occupancy sensor turns lights on and off based on occupancy

User-adjustable sensitivity

User-adjustable time delay of 30 sec to 30 min



ASIC technology reduces components and provides greater reliability

LED indicator

30 segment multi-element Fresnel lens

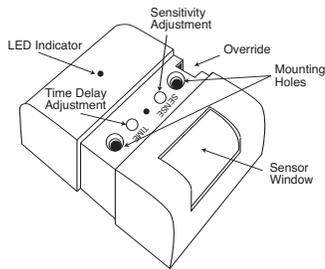
## Specifications

- Adjustable time delay of 30 sec to 30 min
- Units per power pack: up to 8 (B); up to 10 (BZ)
- 2.5" x 2.5" x 1.14" (63.5mm x 63.5mm x 29.0mm)
- UL and CUL listed, 5 year warranty

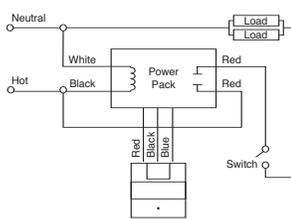
## Applications

- Small offices
- Copy rooms
- Break rooms
- Computer rooms
- Racquetball courts
- Library book stacks

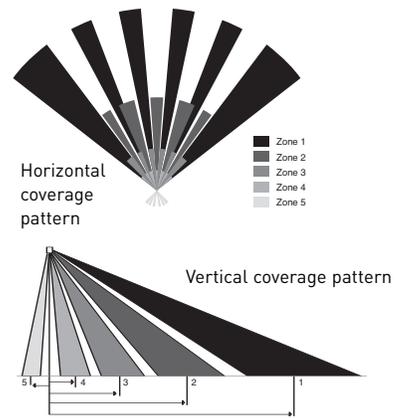
## Product Controls



## Wiring Diagram



## Coverage Pattern



## Order Information

CATALOG #	VOLTAGE	CURRENT	COVERAGE
WPIR	24 VDC	14 mA	up to 300 ft <sup>2</sup> [28 m <sup>2</sup> ]

All units are white and use Watt Stopper power packs

# CX Passive Infrared Sensor



Choice of four coverage patterns

User-adjustable time delay and sensitivity

ASIC technology reduces components and provides greater reliability

Swivel mounting bracket for convenient corner mounting to wall or ceiling

Built-in light level sensor (CX-100)

Isolated relay for use with HVAC or other control systems (CX-100)

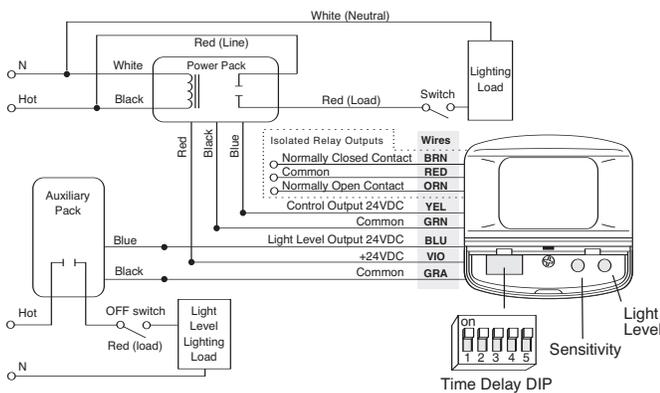
## Specifications

- Time delay of 15 sec to 30 min
- Built-in light level sensor 3 to 200 fc (32 - 2,152 lux) (CX-100)
- Units per power pack: CX-100 up to 6 (B), up to 8 (BZ); CX-105 up to 14 (B), up to 18 (BZ)
- 3.3" x 3.3" x 2.1" (83.8mm x 83.8mm x 53.3mm)
- UL and CUL listed, 5 year warranty

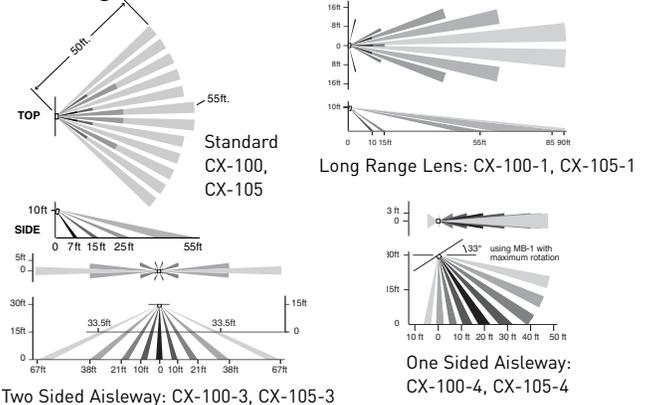
## Applications

- Large offices
- Warehouses
- Computer rooms
- Open office spaces
- Classrooms
- High bays

## Wiring & Controls



## Coverage Patterns



Coverages shown are maximum. Under ideal conditions, coverage for half-step walking motion (standard lens) can reach up to 2000 ft<sup>2</sup> (185.8 m<sup>2</sup>), for desktop activity up to 1000 ft<sup>2</sup> (92.9 m<sup>2</sup>).

## Order Information

CATALOG #	VOLTAGE	CURRENT	COVERAGE	FEATURES
CX-100	24 VDC	19 mA	up to 2000 ft <sup>2</sup> (185.8 m <sup>2</sup> )	light level, isolated relay
CX-100-1	24 VDC	19 mA	up to 90 linear ft (27.4 m)	light level, isolated relay
CX-100-3	24 VDC	19 mA	up to 120 linear ft (36.6 m)	light level, isolated relay
CX-100-4	24 VDC	19 mA	up to 50 linear ft (15.2 m)	light level, isolated relay
CX-105	24 VDC	8 mA	up to 2000 ft <sup>2</sup> (185.8 m <sup>2</sup> )	
CX-105-1	24 VDC	8 mA	up to 90 linear ft (27.4 m)	
CX-105-3	24 VDC	8 mA	up to 120 linear ft (36.6 m)	
CX-105-4	24 VDC	8 mA	up to 50 linear ft (15.2 m)	

All units are white and use Watt Stopper power packs. Order the MB-1 Industrial Mounting Bracket for installing the CX in industrial settings such as warehouses.

# CI-200 Passive Infrared Sensor

360° coverage

User adjustable time delay and sensitivity

ASIC enhances reliability and helps eliminate false triggers



Isolated relay for use with HVAC or other control systems (CI-200)

Built-in light level sensor (CI-200)

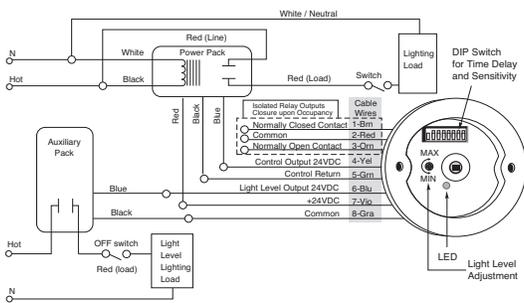
## Specifications

- Time delay 15 sec to 30 min
- Built-in light level sensor 4 to 190 fc (43 to 2,045 lux) (CI-200)
- SPDT isolated relay (CI-200)
- Units per power pack: CI-200 up to 5 (B), up to 7 (BZ); CI-205 up to 10 (B), up to 13 (BZ)
- 3.3" diameter x 2.2" total depth (83.8mm x 55.9mm) Extends approx .36" from ceiling
- UL and CUL listed, 5 year warranty

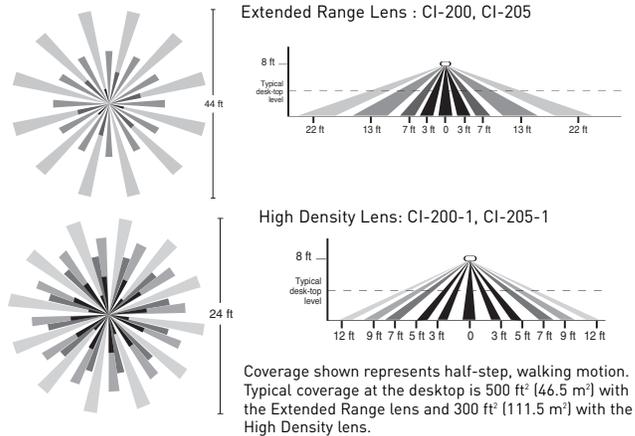
## Applications

- Open or partitioned office spaces
- Conference rooms
- Computer rooms
- Classrooms

## Wiring & Controls



## Coverage Patterns



## Order Information

CATALOG #	VOLTAGE	CURRENT	COVERAGE
CI-200	24 VDC	20 mA	up to 1200 ft <sup>2</sup> (111.5 m <sup>2</sup> )
CI-200-1	24 VDC	20 mA	up to 500 ft <sup>2</sup> (46.5 m <sup>2</sup> )
CI-205	24 VDC	11 mA	up to 1200 ft <sup>2</sup> (111.5 m <sup>2</sup> )
CI-205-1	24 VDC	11 mA	up to 500 ft <sup>2</sup> (46.5 m <sup>2</sup> )

All units are white and use Watt Stopper power packs.

# CI-300, CI-355 360° PIR Sensor



Architecturally appealing low profile appearance

SmartSet automatically selects optimal time delay and sensitivity

Depluggable terminal wiring for quick and easy installation

Accepts low voltage switch input for manual-on operation (CI-300, CI-305)

Line and low voltage models available

Walk-through mode increases savings potential

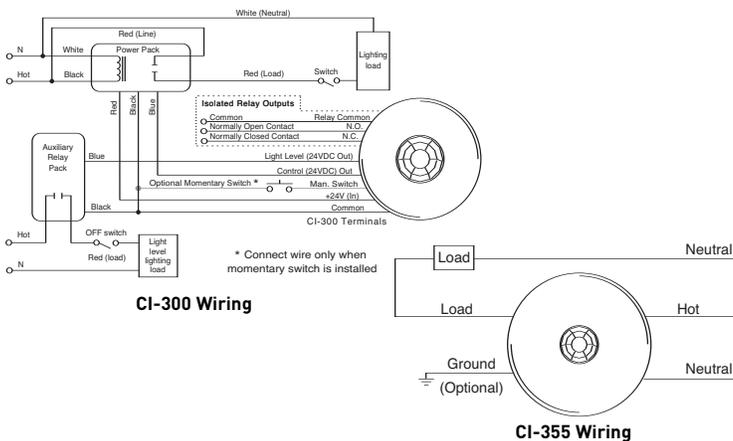
## Specifications

- CI-300, CI-305: 24 VDC/VAC
- CI-355: 120/230/277/347 VAC, 50/60 Hz
- Time delays: SmartSet (automatic), fixed (5, 10, 15, 20, or 30 minutes), walk-through, test-mode
- Sensitivity adjustment: SmartSet (automatic) or reduced sensitivity
- Built-in light level sensor; 10 to 300 fc (107 to 3,229 lux) (CI-300, CI-355)
- Isolated relay with N/O and N/C outputs rated for 1 Amp at 30 VDC/VAC (CI-300)
- Mounting options: ceiling tile; 4 square junction box with double gang mudring (CI-300, CI-305)
- Mounting options: 4 square junction box with double gang mudring; 4 inch octagonal junction box (CI-355)
- Units per power pack: CI-300 up to 5 (B), up to 7 (BZ); CI-305 up to 12 (B), up to 16 (BZ)
- 4.5" diameter x 1.02" (144.3mm x 25.9mm); (83.8mm x 55.9mm) extends approx .36" from ceiling
- UL and CUL listed, 5 year warranty

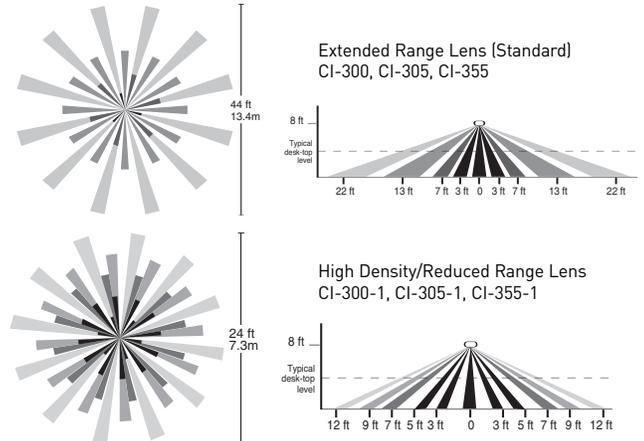
## Applications

- Open offices
- Conference rooms
- Classrooms
- Offices
- Storage rooms
- Computer rooms

## Wiring Diagrams



## Coverage Patterns



## Order Information

CATALOG #	VOLTAGE	CURRENT/LOAD REQ	COVERAGE
CI-300	24 VDC	20 mA	up to 1200 ft <sup>2</sup> (111.5 m <sup>2</sup> )
CI-300-1	24 VDC	20 mA	up to 500 ft <sup>2</sup> (46.5 m <sup>2</sup> )
CI-305	24 VDC	9 mA	up to 1200 ft <sup>2</sup> (111.5 m <sup>2</sup> )
CI-305-1	24 VDC	9 mA	up to 500 ft <sup>2</sup> (46.5 m <sup>2</sup> )
CI-355	120 VAC, 50/60 Hz	0-800 W Ballast/Tungsten	up to 1200 ft <sup>2</sup> (111.5 m <sup>2</sup> )
	230/277 VAC, 50/60 Hz	0-1200 W Ballast	
	347 VAC, 50/60 Hz	0-1500 W Ballast	
CI-355-1	120 VAC, 50/60 Hz	0-800 W Ballast/Tungsten	up to 500 ft <sup>2</sup> (46.5 m <sup>2</sup> )
	230/277 VAC, 50/60 Hz	0-1200 W Ballast	
	347 VAC, 50/60 Hz	0-1500 W Ballast	

All units are white and low voltage models use Watt Stopper power packs. For line voltage installations requiring an adapter plate, order cat # CA-1.

# CI-12, CI-24 Sensor for HVAC, BAS



Ceiling mount 360° sensor

Interfaces directly with EMS or HVAC system through internal isolated relay

User adjustable time delay and sensitivity via DIP switch

Four-level Fresnel lens offers superior desktop detection

Advanced PIR technology

ASIC technology reduces components and enhances reliability

## Specifications

- Time delay 30 seconds to 30 minutes
- Isolated relay rated for 1 Amp at 24 VAC/VDC
- 3.3" diam x 2.2" depth [83.8mm x 55.9mm] extends approx .36" from ceiling
- UL and CUL listed, 5 year warranty

## Applications

- Open or partitioned office spaces
- Conference rooms
- Computer rooms
- Classrooms

# CB Low Temp Sensor



PIR occupancy sensor for areas of extreme low temperature

Watertight enclosure prevents moisture and dust from affecting detection

Choice of three coverage patterns

Convenient DIP switch adjustments for time delay and sensitivity

Isolated relay contact for use with HVAC or other control systems

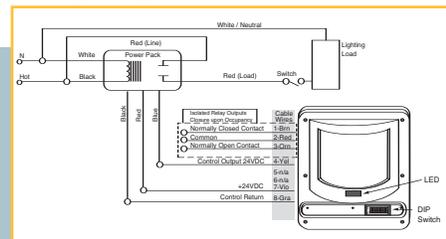
## Specifications

- Time delay 15 sec to 10 min
- Temperature range -40°F to +95°F
- Units per power pack: up to 5 (B); up to 7 (BZ)
- 3.94"x3.74"x2.36" (100.1mm x 95.0mm x 60.0mm)
- UL and CUL listed, 5 year warranty

## Applications

- Cold storage and freezers
- Unconditioned spaces

## Wiring Diagram



### CI-12/CI-24 Order Information

CATALOG #	VOLTAGE	LOAD REQUIREMENTS	COVERAGE
CI-12	12 VDC	28 mA	See coverage
CI-24	24 VAC, VDC	37 mA	patterns CI-200

Units are white; Extended Range lens is standard; Add -1 to Cat# for High Density/Reduced coverage lens.

### CB-100 Order Information

CATALOG #	VOLTAGE	CURRENT	COVERAGE
CB-100	24 VDC	20 mA	See coverage patterns CX-100

Units are beige; Dense Wide Angle lens is standard; Add-1 to Cat# for Long Range, -3 for Two Sided Aisle way

# W Ultrasonic Occupancy Sensor

Advanced, omni-directional,  
Doppler technology

Adjustable time delay from 15 seconds  
to 15 minutes

500, 1000, 2000 sq ft, and hallway  
coverages available



Ideal for open office areas, conference rooms  
and restrooms

Advanced Signal Processing Circuitry  
automatically adjusts detection threshold

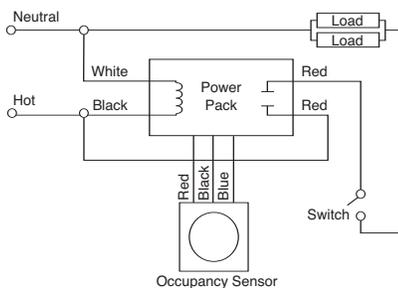
## Specifications

- Ultrasonic technology with 25KHz frequency
- Temperature and humidity resistant receivers
- Logic key/ON bypass
- LED indicator
- Adjustable sensitivity
- Units per power pack: up to 7 (B); up to 9 (BZ)
- 4.5" x 4.5" x 1.25" (114.3mm x 114.3mm x 31.8mm)
- UL and CUL listed, 5 year warranty

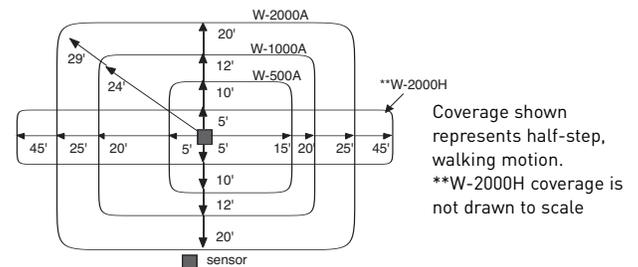
## Applications

- Open and partitioned spaces
- Restrooms
- Storage areas
- Conference rooms
- Hallways

## Wiring Diagram



## Coverage Patterns



## Order Information

CATALOG #	VOLTAGE	CURRENT	COVERAGE
W-500A	24 VDC	16 mA	360°, 500 ft <sup>2</sup> (46.5 m <sup>2</sup> )
W-1000A	24 VDC	16 mA	360°, 1000 ft <sup>2</sup> (92.9 m <sup>2</sup> )
W-2000A	24 VDC	16 mA	360°, 2000 ft <sup>2</sup> (185.8 m <sup>2</sup> )
W-2000H	24 VDC	16 mA	360°, 90 linear ft (27.4 m)

All units are white and use Watt Stopper power packs.

# WT Ultrasonic Occupancy Sensor



Ultrasonic technology with 32 KHz frequency

Utilizes advanced, omni-directional, Doppler technology

Advanced Signal Processing automatically adjusts detection threshold

User-adjustable DIP switch time delay and sensitivity settings

600, 1100, 2200 sq ft and hallway coverages available

Isolated relay allows sensor to interface with building control systems

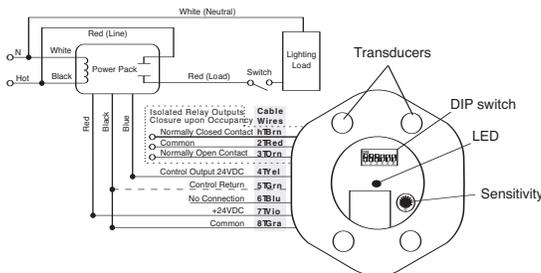
## Specifications

- Ultrasonic technology with 32 KHz frequency
- Time delay 15 sec to 30 min
- Isolated relay with N/O and N/C outputs; rated for 1 amp @ 30 VDC/VAC
- 4.8" diam x 1.5" depth (121.9mm x 38.1mm)
- Units per power pack: WT-605 up to 4 (B), 5 (BZ); WT-600 up to 3 (B), 4 (BZ); WT-1105, WT-2205, WT-2255 up to 3 (B), 5 (BZ); WT-1100, WT-2200, WT-2250 up to 2 (B), 3 (BZ)
- UL and CUL listed, 5 year warranty

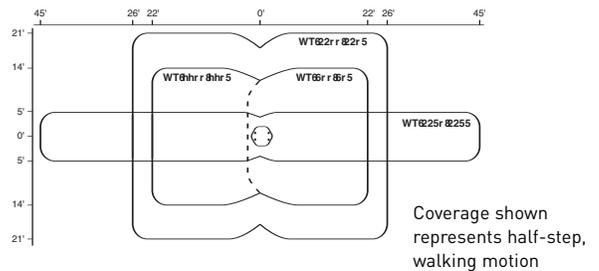
## Applications

- Open and partitioned spaces
- Restrooms
- Storage areas
- Conference rooms
- Hallways

## Wiring & Controls



## Coverage Patterns



## Order Information

CATALOG #	VOLTAGE	CURRENT	COVERAGE	FEATURE
WT-605	24 VDC	27 mA	360° one-sided, 600 ft <sup>2</sup> (55.7 m <sup>2</sup> )	
WT-600	24 VDC	37 mA	360° one-sided, 600 ft <sup>2</sup> (55.7 m <sup>2</sup> )	isolated relay
WT-1105	24 VDC	30 mA	360° two-sided, 1100 ft <sup>2</sup> (102.2 m <sup>2</sup> )	
WT-1100	24 VDC	40 mA	360° two-sided, 1100 ft <sup>2</sup> (102.2 m <sup>2</sup> )	isolated relay
WT-2205	24 VDC	30 mA	360° two-sided, 2200 ft <sup>2</sup> (204.4 m <sup>2</sup> )	
WT-2200	24 VDC	40 mA	360° two-sided, 2200 ft <sup>2</sup> (204.4 m <sup>2</sup> )	isolated relay
WT-2255	24 VDC	30 mA	360° two-sided, 90 linear ft (27.4 m)	
WT-2250	24 VDC	40 mA	360° two-sided, 90 linear ft (27.4 m)	isolated relay

All units are white and use Watt Stopper power packs.

# UT-300, UT-355 360° Ultrasonic Sensor

Architecturally appealing low profile appearance

SmartSet automatically selects optimal time delay and sensitivity

Depluggable terminal wiring for quick and easy installation



Accepts low voltage switch input for manual-on operation (UT-300, UT-305)

Ultrasonic diffusers give more comprehensive coverage

Walk-through mode increases savings potential

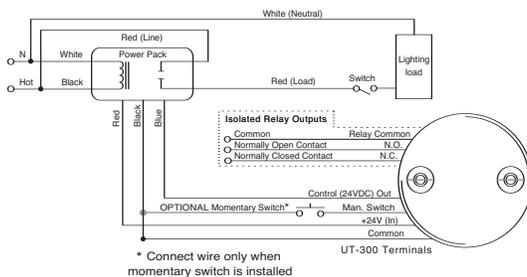
## Specifications

- UT-300, UT-305: 24 VDC/VAC
- UT-355: 120/230/277/347 VAC, 50/60 Hz
- Time delays: SmartSet (automatic), fixed [5, 10, 15, 20, or 30 minutes], walk-through, test-mode
- Sensitivity adjustment: SmartSet (automatic) or reduced sensitivity
- Ultrasonic frequency of 40 kHz
- Isolated relay with N/O and N/C outputs rated for 1 Amp at 30 VDC/VAC (UT-300)
- Built-in light level sensor; 10 to 300 fc (107 to 3,229 lux) [UT-300, UT-355]
- Mounting options: ceiling tile; 4 square junction box with double gang mudring (UT-300, UT-305)
- Mounting options: 4 square junction box with double gang
- mudring; 4 inch octagonal junction box (UT-355)
- Units per power pack: UT-300 up to 2 (B), up to 3 (BZ); UT-305 up to 3 (B), up to 4 (BZ)
- 4.5" diameter x 1.02" (144.3mm x 25.9mm) (83.8mm x 55.9mm) Extends approx .36" from ceiling
- UL and CUL listed, 5 year warranty

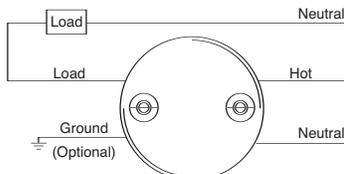
## Applications

- Restrooms
- Large Offices
- Open Offices

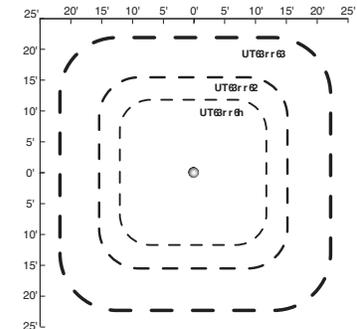
## UT-300 Wiring



## UT-355 Wiring



## Coverage Patterns



Coverages represent half-step walking motion. Actual coverages can vary for each application based on room shape, use and obstacles.

## Order Information

CATALOG #	VOLTAGE	CURRENT/LOAD REQ	COVERAGE
UT-300-X	24 VDC	43 mA	see diagram
UT-305-X	24 VDC	37 mA	
UT-355-X	120 VAC, 50/60 Hz	0-800 W	
	230/277 VAC, 50/60 Hz	Ballast/Tungsten	
	347 VAC, 50/60 Hz	0-1200 W Ballast 0-1500 W Ballast	

X = 1 for 500 ft<sup>2</sup> of coverage; -2 for 1000 ft<sup>2</sup>; -3 for 2000 ft<sup>2</sup>.  
All units are white and low voltage models use Watt Stopper power packs.  
For line voltage installations requiring an adapter plate, order cat # CA-1.

# DT-200 Dual Technology Sensor



Combines passive infrared and ultrasonic technologies

Trouble-free lighting control in applications difficult for single technology sensors

Built-in light level sensor

SmartSet automatically selects optimal settings for each space

Accepts low voltage switch input for manual-on operation

Walk-through mode increases savings potential

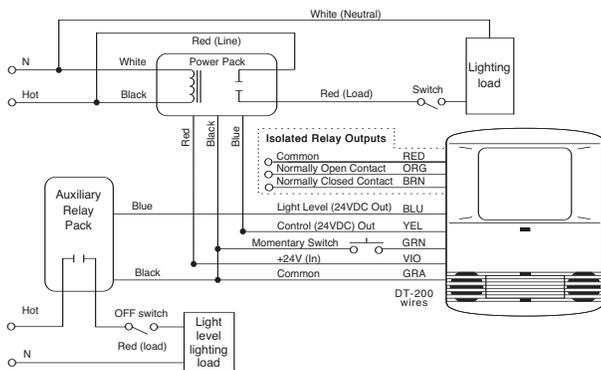
## Specifications

- 24 VDC/VAC
- Ultrasonic frequency of 40 kHz
- Time delays: SmartSet (automatic), fixed (5, 10, 15, 20, or 30 minutes), walk-through, test-mode
- Sensitivity adjustment: SmartSet (automatic) or reduced sensitivity
- SPDT isolated relay (DT-200)
- Isolated relay with N/O and N/C outputs rated for 1 Amp at 24 VDC/VAC (DT-200)
- Built-in light level sensor; 2 to 200 fc (21 to 2,152) lux (DT-200)
- Units per power pack: DT-200 up to 3 (B), up to 4 (BZ); DT-205 up to 4 (B), up to 5 (BZ)
- 4.4" x 3.4" x 2" (111.8mm x 86.4mm x 50.8mm)
- UL and CUL listed, 5 year warranty

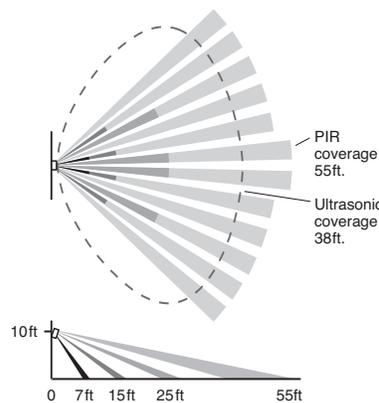
## Applications

- Classrooms
- Conference and training rooms
- Large offices

## Wiring Diagram



## Coverage Pattern



Coverages shown are maximum. Under ideal conditions, coverage for half-step walking motion (standard lens) can reach up to 2000 ft<sup>2</sup>, for desktop activity up to 1000 ft<sup>2</sup>.

## Order Information

CATALOG #	VOLTAGE	CURRENT	COVERAGE	FEATURES
DT-200	24 VDC	43 mA	2000 ft <sup>2</sup> (185.8 m <sup>2</sup> )	light level, isolated relay
DT-205	24 VDC	35 mA	2000 ft <sup>2</sup> (185.8 m <sup>2</sup> )	

All units are white and use Watt Stopper power packs.

# DT-300 360° Dual Technology Sensors



Architecturally appealing low profile appearance

SmartSet™ automatically selects optimal settings for each space

Ultrasonic diffusers give more comprehensive coverage

Accepts low voltage switch input for manual-on operation (DT-300, DT-305)

Depluggable terminal wiring for quick and easy installation

Walk-through mode increases savings potential  
line and low voltage models available

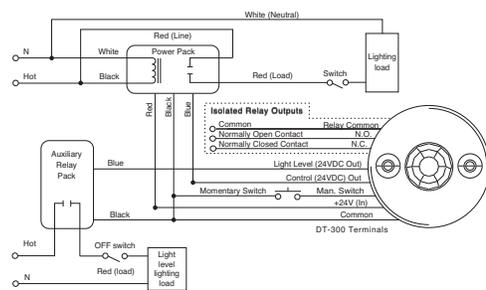
## Specifications

- DT-300, DT-305: 24 VDC/VAC
- DT-355: 120/230/277/347 VAC, 50/60 Hz
- Time delays: SmartSet (automatic), fixed (5, 10, 15, 20, or 30 minutes), walk-through, test-mode
- Sensitivity adjustment: SmartSet (automatic) or reduced sensitivity
- Ultrasonic frequency of 40 kHz
- Isolated relay with N/O and N/C outputs rated for 1 Amp at 30 VDC/VAC (DT-300)
- Built-in light level sensor; 10 to 300 fc (107 to 3,229 lux) (DT-300, DT-355)
- Mounting options: ceiling tile; 4 square junction box with double gang mudring (DT-300, DT-305)
- Mounting options: 4 square junction box with double gang
- mudring; 4 inch octagonal junction box (DT-355)
- Units per power pack: DT-300 up to 2 (B), up to 3 (BZ); DT-305 up to 3 (B), up to 4 (BZ)
- 4.5" diameter x 1.02" (144.3mm x 25.9mm) Extends approx .36" from ceiling
- UL and CUL listed, 5 year warranty

## Applications

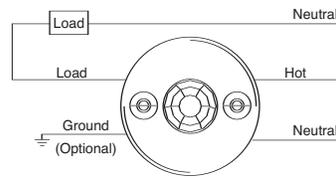
- Classrooms
- Open office spaces
- Computer rooms

## Wiring Diagrams



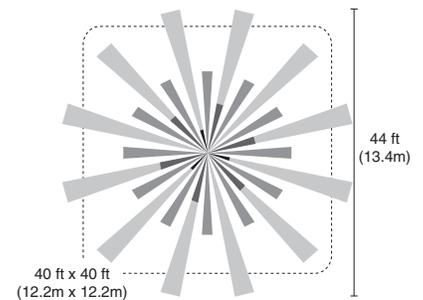
DT-300 Wiring

Wiring diagram includes bi-level control and manual-on option with momentary switch.



DT-355 Wiring

## Coverage Pattern



Coverage shown is maximum and represents half-step walking motion. Under ideal conditions, coverage for half-step walking motion can reach up to 1000 ft<sup>2</sup> (92.9 m<sup>2</sup>).

## Order Information

CATALOG #	VOLTAGE	CURRENT/LOAD REQ	COVERAGE
DT-300	24 VDC	43 mA	up to 1000 ft <sup>2</sup> (92.9 m <sup>2</sup> )
DT-305	24 VDC	35 mA	up to 1000 ft <sup>2</sup> (92.9 m <sup>2</sup> )
DT-355	120 VAC, 50/60 Hz	0-800 W Ballast/Tungsten	up to 1000 ft <sup>2</sup> (92.9 m <sup>2</sup> )
	230/277 VAC, 50/60 Hz	0-1200 W Ballast	up to 1000 ft <sup>2</sup> (92.9 m <sup>2</sup> )
	347 VAC, 50/60 Hz	0-1500 W Ballast	up to 1000 ft <sup>2</sup> (92.9 m <sup>2</sup> )

All units are white and low voltage models use Watt Stopper power packs. For line voltage installations requiring an adapter plate, order cat # CA-1.

# Power Packs



Fully self-contained transformer and relay

Many models of power pack products for wide range of applications

Plenum rated

Two-relay output power pack that accepts signals from multiple control devices (LC-100)

Daylighting control with photosensor (LC-100)

2 channel dimming with 0-10V ballasts (LC-100)

Load shed dimming or ON/OFF switching capability (LC-100)

## B Power Pack Specifications

- Secondary voltage of 24VDC
- Secondary output of 150 mA, 114 mA with relay connected
- Low voltage leads rated for 300 volts
- UL rated 94V-0 plastic enclosure, units are white
- ABS UL 2043 plenum rated plastic and wiring
- 1.6" x 2.75" x 1.6" (41mm x 70mm x 41mm) with a 1/2" snap-in nipple
- UL and CUL listed, 5 year warranty

## BZ Specifications

- 120/277 VAC voltage input, 60 Hz
- Secondary voltage of 24VDC
- Secondary output of 150 mA, 150 mA with relay connected
- Low voltage leads rated for 300 volts
- UL rated 94V-0 plastic enclosure, units are grey
- ABS UL 2043 plenum rated plastic and wiring
- Relay is Zero Crossing
- Hold-ON/hold-OFF inputs
- LED status and overcurrent indicator
- 1.6" x 2.75" x 1.6" (41mm x 70mm x 41mm) with a 1/2" snap-in nipple
- UL and CUL listed, 5 year warranty

## LC-100 Specifications

- 120/277 VAC voltage input, 50/60 Hz
- 2 relay outputs rated 20 Amp 120V tungsten and ballast, 20 Amp 277V ballast
- Secondary output of 150 mA, 150 mA with relay connected
- Dual switch inputs for on/off or dimming
- 2 isolated NO/NC relays rated 1 Amp @ 24 VDC
- NEMA 1 enclosure, acceptable for use in plenum spaces
- Output power 150mA @ 24 VDC with automatic overload protection
- Dual voltage input 120 or 277 VAC @ 14 watts maximum
- Switch wiring distances up to 1000 feet with 18 gauge wire
- 6.6" x 6.1" x 2.1" (168mm x 156mm x 54mm) with a 1/2" nipple
- UL and CUL listed, 5 year warranty

## Order Information

CATALOG #	INPUT VOLTAGE	LOAD RATINGS			OUTPUT
		BALLAST(A)	INCAN(A)	MOTOR(HP)	
<b>Power Packs</b>					
B120E-P	120VAC, 60Hz	20	13	1	24VDC; 150mA***
B277E-P	277VAC, 60Hz	20	-	-	24VDC; 150mA***
B230E-P	220-240VAC, 50/60Hz	20	13	1	24VDC; 150mA***
B347D-P	347VAC, 60Hz	15	-	-	24VDC; 150mA***
BZ-100	120/277VAC, 60Hz	20	20	1	24VDC; 150mA <sup>†</sup>
LC-100	120/277 VAC; 50/60 Hz	20	20	1	24VDC; 150mA <sup>†</sup>
<b>Auxiliary Packs</b>					
S120/277/ 347E-P	120/277/347VAC	20/20/15	13/-/-	1/-/-	-
<b>Form C Power Packs</b>					
A120C-P**	120VAC, 60Hz	8NO/5NC	5NO/3NC	1NO/2.5NC	24VDC; 100mA
A277C-P**	277VAC, 60Hz	6NO/3NC	5NO/2.5NC	2NO/1.5NC	24VDC; 100mA
<b>2 Relay Power Packs</b>					
C120E-P	120VAC, 60Hz	20*	13*	1*	24VDC; 150mA
C277E-P	277VAC, 60Hz	20*	-	-	24VDC; 150mA
<b>Power Supplies</b>					
AT-120	120VAC, 60Hz	-	-	-	24VDC; 800mA
AT-277	277VAC, 60Hz	-	-	-	24VDC; 800mA

\* Ratings per relay. \*\* Contain an isolated relay with normally open (NO) and normally closed (NC) contacts. \*\*\*Output is 150mA before relay is connected and 114mA after relay is connected.  
<sup>†</sup>Output is 150mA with relay connected.

# Outdoor Motion Sensors



Optional model with lampholders

Weatherproof and raintight for reliable performance

Adjustable light level and time delay settings

Line and low voltage models available

90 degree or long-range field of view (EN)

Security override-ON option allows lights to be turned on for length of time delay

Isolated relay enables interface with security systems or other loads

## EW Specifications

- Operating temperature range: -40°F to +130°F
- UL 773A rated raintight; UL 1571 rated for wet locations
- Adjustable time delay of 12 sec to 16 min
- Light level adjustment of .5 to 200 fc (5 - 2152 lux)
- Isolated relay with NO/NC outputs; rated for 1 Amp @ 30 VDC/VAC (EW-200)
- Zero Crossing Circuitry
- 1/2" threaded nipple fits standard NEMA weatherproof fixture fitting
- Lamp holders us PAR 20 or 38 lamps, up to 150W each lamp
- EW sensor: 6.7" x 3.2" x 2.2" (170mm x 80mm x 55mm)
- UL and CUL listed, 5 year warranty

## Applications

- Walkways and entranceways
- Dock lighting
- Garages and yards
- Driveways

## EN Specifications

- Operating temperature range: -40°F to +130°F
- UL 773A rated raintight; UL 1571 rated for wet locations
- Adjustable time delay of 12 sec to 16 min
- Light level adjustment of .4 to 42 fc (4.3 - 452 lux)
- SPDT isolated relay
- Zero Crossing Circuitry
- Manual override-ON allows lights to be turned on for 4 hours
- 3/4" threaded nipple fits standard NEMA weatherproof fixture fitting
- 4.3" x 3.0" x 2.3" (110mm x 77mm x 58mm)
- UL and CUL listed, 5 year warranty

## Applications

- Walkways and entranceways
- Dock lighting
- Doorways
- Corridors

## EW Order Information

CATALOG #	VOLTAGE	LOAD REQ/CURRENT *	COVERAGE	FEATURES
EW-200	- 120, - 277 VAC	0-1000 W ballast	270°	Isolated relay
EW-205	- 120 VAC	0-1000 W ballast	270°	Lamp holders
EW-205-24	24 VDC	8 mA	270°	Controls outdoor HIDs
EW-105-24	24 VDC	8 mA	180°	Controls outdoor HIDs

Specify voltage by adding -120 or -277 to Cat. #. Add -W to Cat. # for Arctic White, -G for Architectural Grey

\*For 120 VAC applications, tungsten loads are also acceptable.

## EN Order Information

CATALOG #	VOLTAGE	LOAD REQUIREMENT*	COVERAGE	FEATURES
EN-100	- 120, - 277 VAC	0-1000 W ballast	90°	Isolated relay
EN-200	- 120, - 277 VAC	0-1000 W ballast	Long range	Isolated relay

Specify voltage by adding -120 or -277 to Cat. #. Add -W to Cat. # for Arctic White, -G for Architectural Grey

\*For 120 VAC applications, tungsten loads are also acceptable.

# IT-200 IntelliTimer Logger

Determines energy savings potential from occupancy sensor use

Adjustable light pipe observes lighting level

Logs when a space is occupied/ vacant and when lighting is on/off



IT-ProSoft Software provides single-step data retrieval, storage, analysis, printing

Logs when a space is occupied/ vacant and when lighting is on/off

Small and lightweight for ease of use and portability

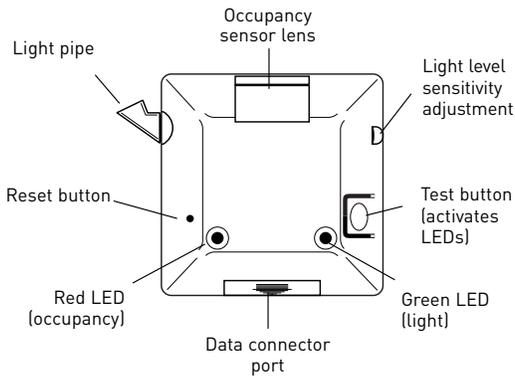
## IT-200 Specifications

- PIR technology
- Lithium battery; 10 year average life
- Test button to activate occupancy and light level LEDs for 90 seconds
- Adjustable sensitivity
- Recessed reset switch
- Stores up to 4096 entries
- Stores site name to identify area being monitored
- Connects to PC for data retrieval

## IT-ProSoft Software Specifications

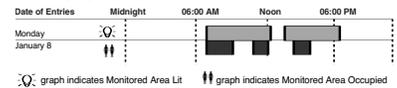
- List entries include number, date, time of entry, and lighting/occupancy status
- Users set energy cost per kWh, size of controlled load, and site name
- HVAC adder calculates savings from reduction of cooling
- Reports show graphs of occupancy/lighting, potential dollar savings, statistical information
- Operable in 6 languages
- Windows compatible
- Downloadable at [www.wattstopper.com](http://www.wattstopper.com)

## IT-200 Controls

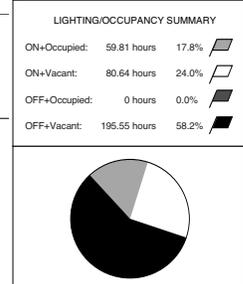


## Sample Logger Reports

Graphs of Lighting/Occupancy for Office Suite #301



Entries: 42	Cost/kWhr: \$0.080
From: Sun, Aug 14, 1995 at 12:00:00 PM	HVAC Adder: 15%
To: Thu, Aug 18, 1995 at 9:32:00 PM	Load Size: 180W
1 Sun, Aug 14, 1995 at 12:00:00 PM	Lights ON Occupied
2 Sun, Aug 14, 1995 at 2:25:00 PM	Lights ON Vacant
3 Mon, Aug 15, 1995 at 7:50:00 AM	Lights ON Occupied
4 Mon, Aug 15, 1995 at 10:15:00 AM	Lights ON Vacant
5 Mon, Aug 15, 1995 at 10:50:00 AM	Lights ON Occupied
6 Mon, Aug 15, 1995 at 12:15:00 PM	Lights OFF Vacant



## Order Information

CATALOG #	DESCRIPTION
IT-200	Occupancy and light logger, PC connector cable included

All units are white

# TS Digital Time Switches



Automatically turns lights off after preset time

Bright electroluminescent LCD shows timer's countdown

Optional audible or visual alerts before lights turn off

Terminal style wiring for simplified installation

Digital operation and simple pushbutton set-up

Time scroll features allows time to adjust up or down

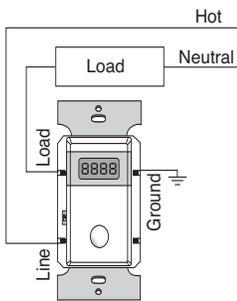
## Specifications

- TS-400: 100-300 AC; 50/60 Hz
- TS-400-24: 24 VAC/VDC/VAC half-wave rectified input
- Time out adjustments range from 5 minutes to 12 hours (5 minute increments to 1 hour, then 15 minute increments to 12 hours)
- Optional visual warning: flashes lights at 5 min and 1 min prior to time-out
- Optional audible warning: beeps every 5 sec at 1 min prior to time-out
- Compatible with all electronic ballasts and motor loads
- TS-400-24 contains SPDT isolated relay rated for 1 Amp @ 30 VDC
- 2.66" x 1.79" x 1.76" (67.5mm x 45.5mm x 44.7mm)
- UL and CUL listed, 5 year warranty

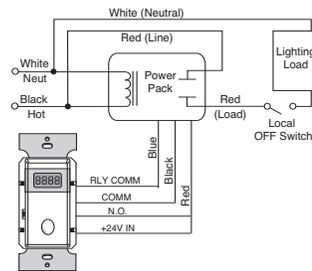
## Applications

- Equipment rooms
- Storage areas
- Closets

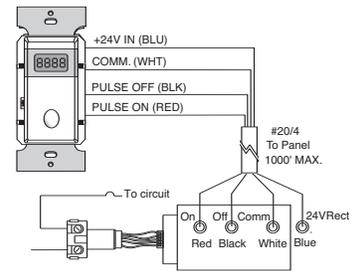
## TS-400 Wiring Diagram



## TS-400-24 Wiring Diagrams



TS-400-24 wiring with power pack



TS-400-24 wiring with lighting control panel

## Order Information

CATALOG #	VOLTAGE	LOAD REQ/CURRENT
TS-400	100/120 VAC or 220/277 VAC; 50/60 Hz	0-800 Watt ballasts or 0-1200 Watt ballast
TS-400-24	24 VAC/VDC/VAC rect.	Current: 12mA DC/41mA AC

Add -I to Cat. # for Ivory, -W for White, -A for Light Almond; Single-gang cover plate ASP-211 included. Order ASP-422 for blank 2-gang cover plate, ASP-432 for 2-gang plate with switch option, specify color.

# Product Line Summary

	WS-200	120/277 VAC; 60 Hz	Automatic wall switch	Passive infrared
	WA-200 WA-300	120/277 230/277 VAC, 50/60 Hz 120/277 230/277 VAC, 50/60 Hz	Automatic wall switch -with dual relays	Passive infrared Passive infrared
	WI-200 WI-300	120/277 VAC; 60 Hz 120/277 VAC; 60 Hz	Automatic wall switch -with dual relays	Passive infrared Passive infrared
	WN-100-120 WN-100-277	120 VAC, 60 Hz 277 VAC, 60 Hz	Motion sensor nightlight switch Motion sensor nightlight switch	Passive infrared Passive infrared
	WD Series	120 or 277 VAC; 60 Hz	Dimmable wall switch	Passive infrared
	CN-100 CW-100	120 VAC, 60 Hz 120 VAC, 60 Hz	Residential vacancy sensor Residential vacancy sensor	Passive infrared Passive infrared
	WPIR	24 VDC	Ceiling mount sensor	Passive infrared
	CX Series	24 VDC	Ceiling/wall mount sensor	Passive infrared
	CI-200 Series	24 VDC	Ceiling mount sensor	Passive infrared
	CI-300 Series CI-355 Series	24 VDC 120/230/277/347 VAC; 50/60 Hz	Ceiling mount sensor Ceiling mount sensor	Passive infrared Passive infrared
	CI-12/24	12/24 VDC	Sensor for HVAC, BAS	Passive infrared
	CB-100	24 VDC	Low temperature sensor	Passive infrared
	W Series	24 VDC	Ceiling mount sensor	Ultrasonic
	WT Series	24 VDC	Ceiling mount sensor	Ultrasonic
	UT-300 Series UT-355 Series	24 VDC 120/230/277/347 VAC; 50/60 Hz	Ceiling mount sensor Ceiling mount sensor	Ultrasonic Ultrasonic
	DT-200 Series	24 VDC	Ceiling/wall mount sensor	Dual technology
	DT-300 Series DT-355 Series	24 VDC 120/230/277/347 VAC; 50/60 Hz	Ceiling mount sensor Ceiling mount sensor	Dual technology Dual technology

