Occupancy Sensors

- meets energy codes
- supports sustainable designs
- saves energy

WattStopper
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.
Occupyancy 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
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.

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.

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.

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

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 workspace, 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.

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**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

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
- Compitable 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
- Terminal style wiring for easy installation
- Built-in light level sensor
- Adjustable sensitivity
- Zero Crossing Circuitry increases longevity
- ASIC technology

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

Order Information
<table>
<thead>
<tr>
<th>CATALOG #</th>
<th>VOLTAGE*</th>
<th>LOAD REQUIREMENTS</th>
<th>COVERAGE*</th>
</tr>
</thead>
<tbody>
<tr>
<td>WS-200</td>
<td>120 VAC; 60 Hz or 277 VAC; 60 Hz</td>
<td>0-800 Watt Ballast or 0-1200 Watt Ballast</td>
<td>up to 900 ft² [83.6 m²], 180°</td>
</tr>
</tbody>
</table>

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
Selective walk-through mode for increased savings

Applications
• Public area offices
• Small offices
• Small conference rooms
• Storage closets

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

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 ft². Typical coverage at the desktop level when mounted at 4 ft is 150 ft².

Order Information
<table>
<thead>
<tr>
<th>CATALOG #</th>
<th>DESCRIPTION</th>
<th>VOLTAGE</th>
<th>LOAD REQUIREMENTS</th>
<th>COVERAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>WA-200</td>
<td>Automatic wall switch</td>
<td>100/120 VAC, 50/60 Hz or 230/277 VAC, 50/60 Hz</td>
<td>0-800 Watt Ballast or 0-1200 Watt Ballast</td>
<td>up to 300 ft² (28 m²)</td>
</tr>
<tr>
<td>WA-300</td>
<td>Automatic wall switch, dual relays</td>
<td>100/120 VAC, 50/60 Hz or 230/277 VAC, 50/60 Hz</td>
<td>0-800 Watt Ballast or 0-1200 Watt Ballast</td>
<td>up to 300 ft² (28 m²)</td>
</tr>
</tbody>
</table>

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

Applications
- Offices
- Conference rooms

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
- Neutral
- 277V Ground (GRN/YEL)
- Black (BLK)
- Red (RED)
- Signal (SIG)

WI-300 Wiring
- Neutral
- 277V Ground (GRN/YEL)
- Black (BLK)
- Red (RED)
- Signal (SIG)

Coverage Pattern

Order Information

<table>
<thead>
<tr>
<th>CATALOG #</th>
<th>DESCRIPTION</th>
<th>VOLTAGE</th>
<th>LOAD REQUIREMENTS</th>
<th>COVERAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>WI-200</td>
<td>Automatic wall switch</td>
<td>120 VAC; 60 Hz</td>
<td>0-800 Watt Ballast</td>
<td>up to 1000 ft² (92.9m²) 180°</td>
</tr>
<tr>
<td></td>
<td></td>
<td>277 VAC; 60 Hz</td>
<td>0-1200 Watt Ballast</td>
<td></td>
</tr>
<tr>
<td>WI-300</td>
<td>Automatic wall switch, dual relays</td>
<td>120 VAC; 60 Hz</td>
<td>0-800 Watt Ballast</td>
<td>up to 1000 ft² (92.9m²) 180°</td>
</tr>
<tr>
<td></td>
<td></td>
<td>277 VAC; 60 Hz</td>
<td>0-1200 Watt Ballast</td>
<td></td>
</tr>
</tbody>
</table>

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

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 ft². To maintain its coverage capacity and optimally detect motion, the WN-100 must have a clear and unobstructed view of occupants.

Order Information

<table>
<thead>
<tr>
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<th>VOLTAGE</th>
<th>LOAD REQUIREMENTS</th>
<th>COVERAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>WN-100-120</td>
<td>120 VAC, 60 Hz</td>
<td>0-500W incandescent, fluorescent</td>
<td>up to 300 ft² (28 m²), 180°</td>
</tr>
<tr>
<td></td>
<td></td>
<td>and compact fluorescent</td>
<td></td>
</tr>
<tr>
<td>WN-100-277</td>
<td>277 VAC, 60 Hz</td>
<td>0-1200W incandescent, fluorescent</td>
<td>up to 300 ft² (28 m²), 180°</td>
</tr>
<tr>
<td></td>
<td></td>
<td>and compact fluorescent</td>
<td></td>
</tr>
</tbody>
</table>

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

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”x1.8”x2.2” (68.9mm x 45.7mm x 55.9mm)
- UL and CUL listed, 5 year warranty

Applications
- Small offices
- Public area offices
- Small conference rooms

Order Information
<table>
<thead>
<tr>
<th>CATALOG #</th>
<th>VOLTAGE</th>
<th>LOAD REQUIREMENTS</th>
<th>COVERAGE</th>
<th>OFF MODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>WD-170</td>
<td>120 VAC; 60 Hz</td>
<td>10-500 W Ballast</td>
<td>up to 300 ft² [28 m²]</td>
<td>Automatic-OFF</td>
</tr>
<tr>
<td>WD-180</td>
<td>277 VAC; 60 Hz</td>
<td>10-500 W Ballast</td>
<td>up to 300 ft² [28 m²]</td>
<td>Automatic-OFF</td>
</tr>
<tr>
<td>WD-270</td>
<td>120 VAC; 60 Hz</td>
<td>10-500 W Ballast</td>
<td>up to 300 ft² [28 m²]</td>
<td>Dim-bef-disconnect</td>
</tr>
<tr>
<td>WD-280</td>
<td>277 VAC; 60 Hz</td>
<td>10-500 W Ballast</td>
<td>up to 300 ft² [28 m²]</td>
<td>Dim-bef-disconnect</td>
</tr>
</tbody>
</table>

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
- Hallways
- Laundry rooms
- Garages

CN
- Bathroom
- Bedrooms

Wiring Diagram

Coverage Pattern

The sensors have a coverage range of 180° and a maximum coverage area of 300 ft². To maintain its coverage capacity and optimally detect motion, the sensor must have a clear and unobstructed view of occupants.

Order Information

<table>
<thead>
<tr>
<th>CATALOG #</th>
<th>DESCRIPTION</th>
<th>VOLTAGE</th>
<th>LOAD REQUIREMENTS</th>
<th>COVERAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>CN-100</td>
<td>Residential vacancy sensor with nightlight</td>
<td>120 VAC; 60 Hz</td>
<td>0-500W incandescent, fluorescent and compact fluorescent</td>
<td>up to 300 ft² (28 m²), 180°</td>
</tr>
<tr>
<td>CW-100</td>
<td>Residential vacancy sensor</td>
<td>120 VAC; 60 Hz</td>
<td>0-500W incandescent, fluorescent and compact fluorescent</td>
<td>up to 300 ft² (28 m²), 180°</td>
</tr>
</tbody>
</table>

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

Specifications
- Adjustable time delay of 30 sec to 30 min
- Units per power pack: up to 8 (B); up to 10 (BZ)
- User-adjustable sensitivity
- User-adjustable time delay of 30 sec to 30 min
- 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
- User-adjustable time delay
- User-adjustable sensitivity
- Sensor Window
- Mounting Holes
- Sensitivity Adjustment
- Time Delay Adjustment
- Override

Wiring Diagram
- Neutral
- Hot
- Black
- Red
- Power Pack
- White
- Switch
- Zone 1
- Zone 2
- Zone 3
- Zone 4
- Zone 5
- LED Indicator
- SENSE
- TIME
- Override

Coverage Pattern
- Vertical coverage pattern
- Horizontal coverage pattern

Order Information

<table>
<thead>
<tr>
<th>CATALOG #</th>
<th>VOLTAGE</th>
<th>CURRENT</th>
<th>COVERAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>WPIR</td>
<td>24 VDC</td>
<td>14 mA</td>
<td>up to 300 ft² [28 m²]</td>
</tr>
</tbody>
</table>

All units are white and use Watt Stopper power packs.
**CX Passive Infrared Sensor**

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

**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

**Order Information**

<table>
<thead>
<tr>
<th>CATALOG #</th>
<th>VOLTAGE</th>
<th>CURRENT</th>
<th>COVERAGE</th>
<th>FEATURES</th>
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</thead>
<tbody>
<tr>
<td>CX-100</td>
<td>24 VDC</td>
<td>19 mA</td>
<td>up to 2000 ft² [185.8 m²]</td>
<td>light level, isolated relay</td>
</tr>
<tr>
<td>CX-100-1</td>
<td>24 VDC</td>
<td>19 mA</td>
<td>up to 90 linear ft [27.4 m]</td>
<td>light level, isolated relay</td>
</tr>
<tr>
<td>CX-100-3</td>
<td>24 VDC</td>
<td>19 mA</td>
<td>up to 120 linear ft [36.6 m]</td>
<td>light level, isolated relay</td>
</tr>
<tr>
<td>CX-100-4</td>
<td>24 VDC</td>
<td>19 mA</td>
<td>up to 50 linear ft [15.2 m]</td>
<td>light level, isolated relay</td>
</tr>
<tr>
<td>CX-105</td>
<td>24 VDC</td>
<td>8 mA</td>
<td>up to 2000 ft² [185.8 m²]</td>
<td>light level, isolated relay</td>
</tr>
<tr>
<td>CX-105-1</td>
<td>24 VDC</td>
<td>8 mA</td>
<td>up to 90 linear ft [27.4 m]</td>
<td>light level, isolated relay</td>
</tr>
<tr>
<td>CX-105-3</td>
<td>24 VDC</td>
<td>8 mA</td>
<td>up to 120 linear ft [36.6 m]</td>
<td>light level, isolated relay</td>
</tr>
<tr>
<td>CX-105-4</td>
<td>24 VDC</td>
<td>8 mA</td>
<td>up to 50 linear ft [15.2 m]</td>
<td>light level, isolated relay</td>
</tr>
</tbody>
</table>

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

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

Order Information

<table>
<thead>
<tr>
<th>CATALOG #</th>
<th>VOLTAGE</th>
<th>CURRENT</th>
<th>COVERAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>CI-200</td>
<td>24 VDC</td>
<td>20 mA</td>
<td>up to 1200 ft² [111.5 m²]</td>
</tr>
<tr>
<td>CI-200-1</td>
<td>24 VDC</td>
<td>20 mA</td>
<td>up to 500 ft² [46.5 m²]</td>
</tr>
<tr>
<td>CI-205</td>
<td>24 VDC</td>
<td>11 mA</td>
<td>up to 1200 ft² [111.5 m²]</td>
</tr>
<tr>
<td>CI-205-1</td>
<td>24 VDC</td>
<td>11 mA</td>
<td>up to 500 ft² [46.5 m²]</td>
</tr>
</tbody>
</table>

All units are white and use Watt Stopper power packs.
CI-300, CI-355 360° PIR Sensor

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)
- 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)
- 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

Order Information

<table>
<thead>
<tr>
<th>CATALOG #</th>
<th>VOLTAGE</th>
<th>CURRENT/LOAD REQ</th>
<th>COVERAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>CI-300</td>
<td>24 VDC</td>
<td>20 mA</td>
<td>up to 1200 ft² [111.5 m²]</td>
</tr>
<tr>
<td>CI-300-1</td>
<td>24 VDC</td>
<td>20 mA</td>
<td>up to 500 ft² [46.5 m²]</td>
</tr>
<tr>
<td>CI-305</td>
<td>24 VDC</td>
<td>9 mA</td>
<td>up to 1200 ft² [111.5 m²]</td>
</tr>
<tr>
<td>CI-305-1</td>
<td>24 VDC</td>
<td>9 mA</td>
<td>up to 500 ft² [46.5 m²]</td>
</tr>
<tr>
<td>CI-355</td>
<td>120 VAC, 50/60 Hz</td>
<td>0-800 W Ballast/Tungsten</td>
<td>up to 1200 ft² [111.5 m²]</td>
</tr>
<tr>
<td>CI-355-1</td>
<td>120 VAC, 50/60 Hz</td>
<td>0-800 W Ballast/Tungsten</td>
<td>up to 500 ft² [46.5 m²]</td>
</tr>
<tr>
<td></td>
<td>230/277 VAC, 50/60 Hz</td>
<td>0-1200 W Ballast</td>
<td></td>
</tr>
<tr>
<td></td>
<td>347 VAC, 50/60 Hz</td>
<td>0-1500 W Ballast</td>
<td></td>
</tr>
<tr>
<td></td>
<td>230/277 VAC, 50/60 Hz</td>
<td>0-1200 W Ballast</td>
<td></td>
</tr>
<tr>
<td></td>
<td>347 VAC, 50/60 Hz</td>
<td>0-1500 W Ballast</td>
<td></td>
</tr>
</tbody>
</table>

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

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

Four-level Fresnel lens offers superior desktop detection
Advanced PIR technology
ASIC technology reduces components and enhances reliability

CB Low Temp Sensor

PIR occupancy sensor for areas of extreme low temperature
Watertight enclosure prevents moisture and dust from affecting detection

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” x 3.74” x 2.36” [100.1mm x 95.0mm x 60.0mm]
- UL and CUL listed, 5 year warranty

Applications
- Cold storage and freezers
- Unconditioned spaces

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

Wiring Diagram

<table>
<thead>
<tr>
<th>CI-12/CI-24 Order Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>CATALOG #</td>
</tr>
<tr>
<td>CI-12</td>
</tr>
<tr>
<td>CI-24</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>CB-100 Order Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>CATALOG #</td>
</tr>
<tr>
<td>CB-100</td>
</tr>
</tbody>
</table>

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

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

Coverage shown represents half-step, walking motion. **W-2000H coverage is not drawn to scale

Order Information

<table>
<thead>
<tr>
<th>CATALOG #</th>
<th>VOLTAGE</th>
<th>CURRENT</th>
<th>COVERAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>W-500A</td>
<td>24 VDC</td>
<td>16 mA</td>
<td>360°, 500 ft² (46.5 m²)</td>
</tr>
<tr>
<td>W-1000A</td>
<td>24 VDC</td>
<td>16 mA</td>
<td>360°, 1000 ft² (92.9 m²)</td>
</tr>
<tr>
<td>W-2000A</td>
<td>24 VDC</td>
<td>16 mA</td>
<td>360°, 2000 ft² (185.8 m²)</td>
</tr>
<tr>
<td>W-2000H</td>
<td>24 VDC</td>
<td>16 mA</td>
<td>360°, 90 linear ft (27.4 m)</td>
</tr>
</tbody>
</table>

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 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

Coverage Patterns
Coverage shown represents half-step, walking motion

Order Information

<table>
<thead>
<tr>
<th>CATALOG #</th>
<th>VOLTAGE</th>
<th>CURRENT</th>
<th>COVERAGE</th>
<th>FEATURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>WT-605</td>
<td>24 VDC</td>
<td>27 mA</td>
<td>360° one-sided, 600 ft² (55.7 m²)</td>
<td>isolated relay</td>
</tr>
<tr>
<td>WT-600</td>
<td>24 VDC</td>
<td>37 mA</td>
<td>360° one-sided, 600 ft² (55.7 m²)</td>
<td>isolated relay</td>
</tr>
<tr>
<td>WT-1105</td>
<td>24 VDC</td>
<td>30 mA</td>
<td>360° two-sided, 1100 ft² (102.2 m²)</td>
<td>isolated relay</td>
</tr>
<tr>
<td>WT-1100</td>
<td>24 VDC</td>
<td>40 mA</td>
<td>360° two-sided, 1100 ft² (102.2 m²)</td>
<td>isolated relay</td>
</tr>
<tr>
<td>WT-2205</td>
<td>24 VDC</td>
<td>30 mA</td>
<td>360° two-sided, 2200 ft² (204.4 m²)</td>
<td>isolated relay</td>
</tr>
<tr>
<td>WT-2200</td>
<td>24 VDC</td>
<td>40 mA</td>
<td>360° two-sided, 2200 ft² (204.4 m²)</td>
<td>isolated relay</td>
</tr>
<tr>
<td>WT-2255</td>
<td>24 VDC</td>
<td>30 mA</td>
<td>360° two-sided, 90 linear ft (27.4 m)</td>
<td>isolated relay</td>
</tr>
<tr>
<td>WT-2250</td>
<td>24 VDC</td>
<td>40 mA</td>
<td>360° two-sided, 90 linear ft (27.4 m)</td>
<td>isolated relay</td>
</tr>
</tbody>
</table>

All units are white and use Watt Stopper power packs.
UT-300, UT-355 360° Ultrasonic Sensor

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)
- Ultrasonic diffusers give more comprehensive coverage
- Walk-through mode increases savings potential
- Accepts low voltage switch input for manual-on operation (UT-300, UT-305)
- Architecturally appealing low profile appearance
- SmartSet automatically selects optimal time delay and sensitivity
- Depluggable terminal wiring for quick and easy installation

Coverage Patterns
- UT-300-1 up to 500 sq ft for walking motion (22.3' x 22.3')
- UT-300-2 up to 1000 sq ft for walking motion (31.6' x 31.6')
- UT-300-3 up to 2000 sq ft for walking motion (44.7' x 44.7')
- Coverages represent half-step walking motion. Actual coverages can vary for each application based on room shape, use and obstacles.

Order Information

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

X = 1 for 500 ft² of coverage; -2 for 1000 ft²; -3 for 2000 ft².
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

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

Order Information

<table>
<thead>
<tr>
<th>CATALOG #</th>
<th>VOLTAGE</th>
<th>CURRENT</th>
<th>COVERAGE</th>
<th>FEATURES</th>
</tr>
</thead>
<tbody>
<tr>
<td>DT-200</td>
<td>24 VDC</td>
<td>43 mA</td>
<td>2000 ft² (185.8 m²)</td>
<td>light level, isolated relay</td>
</tr>
<tr>
<td>DT-205</td>
<td>24 VDC</td>
<td>35 mA</td>
<td>2000 ft² (185.8 m²)</td>
<td></td>
</tr>
</tbody>
</table>

All units are white and use Watt Stopper power packs.
DT-300 360° Dual Technology Sensors

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-355)
- 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 mudring (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)
- Coverage shown is maximum and represents half-step walking motion. Under ideal conditions, coverage for half-step walking motion can reach up to 1000 ft² (92.9 m²).

Applications
- Classrooms
- Open office spaces
- Computer rooms

Coverage Pattern
- 44 ft (13.4m)
- 40 ft x 40 ft (12.2m x 12.2m)

Order Information

<table>
<thead>
<tr>
<th>CATALOG #</th>
<th>VOLTAGE</th>
<th>CURRENT/LOAD REQ</th>
<th>COVERAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>DT-300</td>
<td>24 VDC</td>
<td>43 mA</td>
<td>up to 1000 ft² (92.9 m²)</td>
</tr>
<tr>
<td>DT-305</td>
<td>24 VDC</td>
<td>35 mA</td>
<td>up to 1000 ft² (92.9 m²)</td>
</tr>
<tr>
<td>DT-355</td>
<td>120 VAC, 50/60 Hz</td>
<td>0-800 W Ballast/Tungsten</td>
<td>up to 1000 ft² (92.9 m²)</td>
</tr>
<tr>
<td></td>
<td>230/277 VAC, 50/60 Hz</td>
<td>0-1200 W Ballast</td>
<td>up to 1000 ft² (92.9 m²)</td>
</tr>
<tr>
<td></td>
<td>347 VAC, 50/60 Hz</td>
<td>0-1500 W Ballast</td>
<td>up to 1000 ft² (92.9 m²)</td>
</tr>
</tbody>
</table>

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

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

<table>
<thead>
<tr>
<th>CATALOG #</th>
<th>INPUT VOLTAGE</th>
<th>BALLAST(A)</th>
<th>INCAN(A)</th>
<th>MOTOR(HP)</th>
<th>OUTPUT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Packs</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B120E-P</td>
<td>120VAC, 60Hz</td>
<td>20</td>
<td>13</td>
<td>1</td>
<td>24VDC; 150mA***</td>
</tr>
<tr>
<td>B277E-P</td>
<td>277VAC, 60Hz</td>
<td>20</td>
<td>-</td>
<td>-</td>
<td>24VDC; 150mA***</td>
</tr>
<tr>
<td>B230E-P</td>
<td>220-240VAC, 50/60Hz</td>
<td>20</td>
<td>13</td>
<td>1</td>
<td>24VDC; 150mA***</td>
</tr>
<tr>
<td>B347D-P</td>
<td>347VAC, 60Hz</td>
<td>15</td>
<td>-</td>
<td>-</td>
<td>24VDC; 150mA***</td>
</tr>
<tr>
<td>BZ-100</td>
<td>120/277VAC, 60Hz</td>
<td>20</td>
<td>20</td>
<td>1</td>
<td>24VDC; 150mA†</td>
</tr>
<tr>
<td>LC-100</td>
<td>120/277VAC, 50/60Hz</td>
<td>20</td>
<td>20</td>
<td>1</td>
<td>24VDC; 150mA†</td>
</tr>
<tr>
<td>Auxiliary Packs</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>S120/277/347E-P</td>
<td>120/277</td>
<td>20/20/13</td>
<td>-</td>
<td>-</td>
<td>24VDC; 150mA***</td>
</tr>
</tbody>
</table>

Form C Power Packs
- A120C-P**  | 120VAC, 60Hz | 8NO/5NC | 5NO/3NC | 1NO/2.5NC | 24VDC; 100mA |
- A277C-P*** | 277VAC, 60Hz | 4NO/3NC | 5NO/2.5NC | 2NO/5NC | 24VDC; 100mA |

2 Relay Power Packs
- C120E-P   | 120VAC, 60Hz | 20*      | 13*      | 1*        | 24VDC; 150mA |
- C277E-P   | 277VAC, 60Hz | 20*      | -        | -         | 24VDC; 150mA |

Power Supplies
- 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. †Output is 150mA with relay connected.
Outdoor Motion Sensors

Applications
• Walkways and entranceways
• Dock lighting

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

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
• 1/2’ 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
• Driveways

EW Order Information

<table>
<thead>
<tr>
<th>CATALOG #</th>
<th>VOLTAGE</th>
<th>LOAD REG/CURRENT</th>
<th>COVERAGE</th>
<th>FEATURES</th>
</tr>
</thead>
<tbody>
<tr>
<td>EW-200</td>
<td>- 120, - 277 VAC</td>
<td>0-1000 W ballast</td>
<td>270°</td>
<td>Isolated relay</td>
</tr>
<tr>
<td>EW-205</td>
<td>- 120 VAC</td>
<td>0-1000 W ballast</td>
<td>270°</td>
<td>Lamp holders</td>
</tr>
<tr>
<td>EW-205-24</td>
<td>24 VDC</td>
<td>8 mA</td>
<td>270°</td>
<td>Controls outdoor HIDs</td>
</tr>
<tr>
<td>EW-105-24</td>
<td>24 VDC</td>
<td>8 mA</td>
<td>180°</td>
<td>Controls outdoor HIDs</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>CATALOG #</th>
<th>VOLTAGE</th>
<th>LOAD REQUIREMENT</th>
<th>COVERAGE</th>
<th>FEATURES</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN-100</td>
<td>- 120, - 277 VAC</td>
<td>0-1000 W ballast</td>
<td>90°</td>
<td>Isolated relay</td>
</tr>
<tr>
<td>EN-200</td>
<td>- 120, - 277 VAC</td>
<td>0-1000 W ballast</td>
<td>Long range</td>
<td>Isolated relay</td>
</tr>
</tbody>
</table>

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 InteliTimer 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-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

IT-200 Controls
- Light pipe
- Occupancy sensor lens
- Light level sensitivity adjustment
- Test button (activates LEDs)
- Red LED (occupancy)
- Data connector port
- Green LED (light)
- Reset button

Order Information

<table>
<thead>
<tr>
<th>CATALOG #</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>IT-200</td>
<td>Occupancy and light logger, PC connector cable included</td>
</tr>
</tbody>
</table>

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**
- **Dimension:** 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

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

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

<table>
<thead>
<tr>
<th>Product Line</th>
<th>Voltage and Frequency</th>
<th>Function</th>
<th>Sensor Type</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>WS-200</td>
<td>120/277 VAC; 60 Hz</td>
<td>Automatic wall switch</td>
<td>Passive infrared</td>
<td></td>
</tr>
<tr>
<td>WA-200</td>
<td>120/277 230/277 VAC, 50/60 Hz</td>
<td>Automatic wall switch</td>
<td>Passive infrared</td>
<td></td>
</tr>
<tr>
<td>WA-300</td>
<td>120/277 230/277 VAC, 50/60 Hz</td>
<td>Automatic wall switch</td>
<td>Passive infrared</td>
<td>-with dual relays</td>
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<tr>
<td>WI-200</td>
<td>120/277 VAC; 60 Hz</td>
<td>Automatic wall switch</td>
<td>Passive infrared</td>
<td>-with dual relays</td>
</tr>
<tr>
<td>WI-300</td>
<td>120/277 VAC; 60 Hz</td>
<td>Automatic wall switch</td>
<td>Passive infrared</td>
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</tr>
<tr>
<td>WN-100-120</td>
<td>120 VAC, 60 Hz 277 VAC, 60 Hz</td>
<td>Motion sensor nightlight switch</td>
<td>Passive infrared</td>
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<tr>
<td>WN-100-277</td>
<td>120 VAC, 60 Hz 277 VAC, 60 Hz</td>
<td>Motion sensor nightlight switch</td>
<td>Passive infrared</td>
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<tr>
<td>WD Series</td>
<td>120 or 277 VAC; 60 Hz</td>
<td>Dimmable wall switch</td>
<td>Passive infrared</td>
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<tr>
<td>CN-100</td>
<td>120 VAC, 60 Hz</td>
<td>Residential vacancy sensor</td>
<td>Passive infrared</td>
<td></td>
</tr>
<tr>
<td>CW-100</td>
<td>120 VAC, 60 Hz</td>
<td>Residential vacancy sensor</td>
<td>Passive infrared</td>
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<tr>
<td>WPIR</td>
<td>24 VDC</td>
<td>Ceiling mount sensor</td>
<td>Passive infrared</td>
<td></td>
</tr>
<tr>
<td>CX Series</td>
<td>24 VDC</td>
<td>Ceiling/wall mount sensor</td>
<td>Passive infrared</td>
<td></td>
</tr>
<tr>
<td>CI-200 Series</td>
<td>24 VDC</td>
<td>Ceiling mount sensor</td>
<td>Passive infrared</td>
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<tr>
<td>CI-300 Series</td>
<td>24 VDC</td>
<td>Ceiling mount sensor</td>
<td>Passive infrared</td>
<td></td>
</tr>
<tr>
<td>CI-355 Series</td>
<td>120/230/277/347 VAC; 50/60 Hz</td>
<td>Ceiling mount sensor</td>
<td>Passive infrared</td>
<td></td>
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<tr>
<td>CI-12/24</td>
<td>12/24 VDC</td>
<td>Sensor for HVAC, BAS</td>
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<tr>
<td>CB-100</td>
<td>24 VDC</td>
<td>Low temperature sensor</td>
<td>Passive infrared</td>
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<tr>
<td>W Series</td>
<td>24 VDC</td>
<td>Ceiling mount sensor</td>
<td>Ultrasonic</td>
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<tr>
<td>WT Series</td>
<td>24 VDC</td>
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<td>Ultrasonic</td>
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<tr>
<td>UT-300 Series</td>
<td>24 VDC</td>
<td>Ceiling mount sensor</td>
<td>Ultrasonic</td>
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</tr>
<tr>
<td>UT-355 Series</td>
<td>120/230/277/347 VAC; 50/60 Hz</td>
<td>Ceiling mount sensor</td>
<td>Ultrasonic</td>
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</tr>
<tr>
<td>DT-200 Series</td>
<td>24 VDC</td>
<td>Ceiling/wall mount sensor</td>
<td>Dual technology</td>
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<tr>
<td>DT-300 Series</td>
<td>24 VDC</td>
<td>Ceiling mount sensor</td>
<td>Dual technology</td>
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</tr>
<tr>
<td>DT-355 Series</td>
<td>120/230/277/347 VAC; 50/60 Hz</td>
<td>Ceiling mount sensor</td>
<td>Dual technology</td>
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