

# Controls

## Timers

### Timer Switches

#### Electronic Time Switches - 24 Hour 8 Set Points



**Features:**

- These time switches provide the same dependable and uncomplicated performance as the T101 mechanical time switch, plus to-the-minute programming for accurate load control and reduced energy costs
- Up to 8 set points or events (4 ON/4 OFF) can be preset to automatically repeat on a daily basis
- The program can be overridden at any time by placing the selector switch in the Manual position
- Two industrial grade "AA" Alkaline batteries provide 3 years minimum program and timing protection
- **Case** - NEMA 1 - Drawn steel 7-3/4" (19.7 cm) High, 5" (12.7 cm) Wide, 3" (7.6 cm) Deep in gray finish
- **Knockouts** - Combination 1/2"-3/4" nominal knockouts, one on back and each side of case and two on bottom

Part Number	Amp Rating	Circuits	HP Rating	Switch	Description
ET1105CINT	30	1	1 HP / 2 HP	SPST	120 Volt, Electronic 24 Hour Time Switch with Battery Carryover
ET104CINT	30	1	1 HP / 2 HP	DPST	120/208/240/277 Volt, Electronic 24 Hour Time Switch with Battery Carryover

#### Electronic Time Switches - 7 Day



**Features:**

- This electronic time switch provide to-the-minute programming for accurate load control and reduced energy costs
- Up to 20 set points or events (10 ON/10 OFF or any combination) can be preset to automatically repeat on a weekly or daily basis
- The program can be overridden at any time by placing the selector switch in the Manual position
- This time switch provide for true 7-day load control with up to 140 operations (70 ON/70 OFF or any combination) each week
- **Case** - NEMA 1 - Drawn steel 7-3/4" (19.7 cm) High, 5" (12.7 cm) Wide, 3" (7.6 cm) Deep in gray finish. Both types include permanently attached side hinged door with lockable hasp. Mounting holes and/or mounting bracket included, Separate grounding terminal
- **Knockouts** - Combination 1/2"-3/4" nominal knockouts, one on back and each side of case and two on bottom
- **Switch Rating** - 30 Amp Inductive/Resistive, 24 / 120 / 240 / 277 VAC 60 Hz; 20 Amp Resistive, 28 VDC; 1 HP 120 VA60 Hz; 2 HP 240 VAC 60 Hz; 5 Amp Tungsten, 120 / 240 / VAC 60 Hz; 20 Amp ballast, 120-277 VAC 60 Hz.
- **Carry-over** - Field replaceable "AA" batteries maintain program and accurate time keeping for 3 years minimum, Up front replacement does not require removal of mechanism or field wiring
- **For Controlling:** Water Heaters, Parking Lot Lighting, Commercial Ovens, Interior Lighting, Air Conditioners Fans/Blowers/Pumps, Livestock Feeders, Poultry Equipment, Process Equipment

Part Number	Amp Rating	Circuits	HP Rating	Switch	Description
ET1705CINT	30	1	1 HP / 2 HP	SPST	120 Volt, 7-Day Electronic Time Switch

## Timers

### Timer Switches

#### Mechanical Time Switches - 24 Hour Dial



**Features:**

- Designed for industrial, commercial and residential applications
- Highest HP ratings in the industry for loads up to 40 amps, providing direct 24 hr. control of most loads
- Provides 1 to 12 "ON/OFF" operations each day with minimum ON/OFF times of 1 hour
- All models equipped with one "ON" and one "OFF" tripper
- **Case** - Drawn steel 7-3/4" (19.7 cm) H, 5" (12.7 cm) W, 3" (7.6 cm) D in gray finish. Spring hasp, with hole for lock, holds permanently attached, side hinged door closed. Three mounting holes on back plus handy box mounting holes
- **Knockouts** - Combination 1/2"-3/4" nominal knockouts, one on back and each side of case and two on bottom
- **Switch Rating** - Each Pole; 40 Amp Resistive, 120-480 VAC; 40 Amp Tungsten, inductive or 1000 VA pilot duty, 120-277 VAC; 2 HP (24 FLA) 120 VAC; 5 HP (28 FLA) 240 VAC single phase; 7-1/2 HP (28 FLA) 208 VAC three phase; 10 HP (28 FLA) 240 VAC three phase
- **Application:** Indoor/Outdoor Lighting, Signs, Filters, Air Conditioning, Electric Fences, Heating/Ventilating Systems, Fans, Conveyers

Part Number	Amp Rating	Clock Voltage	HP Rating	Switch	Description
T101INT	40 (Per Pole)	125 @ 60 Hz	2	SPST	24 Hour Dial Mechanical Time Switch
T101PCD82INT	40 (Per Pole)	125 @ 60 Hz	2	SPST	24 Hour Dial Mechanical Time Switch with See-Thru Cover
T103INT	40 (Per Pole)	125 @ 60 Hz	2	DPST	24 Hour Dial Mechanical Time Switch
T104INT	40 (Per Pole)	208-277 @ 60 Hz	5	DPST	24 Hour Dial Mechanical Time Switch

#### Mechanical Time Switches - 7 Day Dial with & without Carryover



**Features:**

- This time switch provide a different "ON/OFF" program each day of the week
- They also provide for 4 pole single throw and 4 pole (2NO/2NC) switching
- This series provides true 7-day load control with minimum ON and minimum OFF times of 3-1/2 hours
- The "BC" models with carryover provide a carryover of 16 hours minimum to maintain accurate load control even during power failure
- When power resumes, the carryover automatically rewinds itself
- Only 1 hour is required to rewind the carryover for each 2 hours of outage
- **Case** - Steel in gray finish 12-1/2" (31.7 cm) high, 8-1/4" (21.0 cm) wide, 4" (10.2 cm) deep. Indoor type with toggle action draws bolt and locking feature. Four mounting holes on back. Separate grounding terminal
- **Knockouts** - Combination 1/2"-3/4" nominal knockouts, two on back, one on each side and two on bottom. Also one 1" nominal on bottom center
- **Special Voltages and Cycles** - See Time Switch Motors for available motors. Contact factory for availability of time switch with 50 cycle or other voltages
- **Switch Rating** - Each Pole 40 amp resistive, 120-480 VAC; 40 amp tungsten, inductive or 1000 VA pilot duty, 120-277 VAC; 2 HP (24 FLA) 120 VAC; 5 HP (28 FLA) 240 VAC single phase; 7-1/2 HP (28 FLA) 208 VAC three phase; 10 HP (28 FLA) 240 VAC three phase.
- **Application** - Heating, Air Conditioning, Pumps, Indoor Lighting, Outdoor Lighting, Motors, Signs, Billboards, Ventilating Systems, Fans, Filters, 3 Phase Loads

Part Number	Amp Rating	Clock Voltage	Switch	Description
T7401BINT	40 (Per Pole)	125 @ 60 Hz	4PST	7-Day Dial With & Without Carryover Mechanical Time Switch

# Controls

## Timers

### Timer Switches

#### Switch Trippers



**Features:**

- 1 on/1 off
- Black/gray
- UL & CSA listed
- Polybagged
- For Model No's T101, T102, T103, T104, T102-20 & T104-20

Part Number	Description
156T1978AINT	Time Switch Trippers

#### Electromechanical Time Switches with Multi-Voltage Selection



**Features:**

- NEMA 3R Outdoor Enclosure
- Voltage - 120, 208/240, 277 VAC
- Long life – Patented, TUFF TOOTH design provides long blade life
- Efficient cutting – Optimized for specific applications
- Durable construction – Shatter resistant, bi-metal design provides the flexibility and durability single-metal blades can't

Part Number	Switch	Output	Description
GM40INT	SPDT/DPDT	40A DPDT	24-Hour Electromechanical, Multi-Voltage
GM40WINT	SPDT/DPDT	40A DPDT	7-Day (Skip-A-Day/Weekly) Electromechanical, Multi-Voltage

## In-Wall Timers

### Decorator Spring Wound Timers



**Features:**

- These energy saving timers use no electricity to operate
- These timers are designed to replace any standard wall switch, single or multi-gang, and automatically limit the "ON" time of fans, lights, motors, heaters and other energy consuming loads
- The "hold feature" allows the user to override the automatic shut-off function for extended use of the load as required
- **Switch Rating**  
**Inductive:** 20 Amp 125 VAC 50/60 Hz; 10 Amp 250 VAC 50/60 Hz; 10 Amp 277 VAC 50/60 Hz,  
**Tungsten:** 7 Amp 125 VAC  
**Motor:** 1 HP 125 VAC 50/60 Hz; 2 HP 250 VAC 50/60Hz

Part Number	Finish	Switch	Time Cycle (Minute)	Description
FD15MWCINT	White Decorative	SPST	15 Min.	Spring Wound Auto-Off Timer
FD30MWCINT	White Decorative	SPST	30 Min.	Spring Wound Auto-Off Timer
FD60MWCINT	White Decorative	SPST	60 Min.	Spring Wound Auto-Off Timer

## In-Wall Timers

### Electronic Auto-off Timers



**Features:**

- 10-20-30-60 - Minute time ranges
- Continuous HOLD "ON" feature

Part Number	Clock Voltage	Color	Motor	Description
EI210WINT	120 VAC	White	1/4 H.P., 120 VAC	Single-Pole Electronic Auto-Off Timer, 15 Amp, 1800 W

## Occupancy Sensors and Controls

### Maestro Wireless Local Controls

#### Maestro Dimmer



Maestro Wireless technology offers impressive lighting control functionality and convenience that will fit almost any commercial or residential application. The Pico Wireless control and Radio Powr Savr sensors give the system even greater flexibility, plus the added benefit of improved energy savings. The system is incredibly easy to install and operate, allowing you to control lighting levels with any combination of up to 10 dimmers, switches and wireless controls – all with the touch of a button.

**Features:**

- Lutron's reliable Clear Connect RF Technology allows for a simple retrofit
- Easily install a 3-way dimmer without pulling new wire
- Hassle-free set up of dimmer, switch, Pico wireless control, and occupancy sensor
- Sensor will turn the lights off after you leave – which means convenience as well as energy savings
- Delayed fade-to-off option allows you to safely exit a room before the lights turn off completely

**Applications:** Hallway and stairs, Bed and bath, Public Lavatories

Part Number	Color	Switch Type	VAC Watts	Description
MRF2WHKWHLUT	White	Single Pole	120   600	Maestro Wireless 600W Dimmer

#### Maestro Switch



For use with multi-location switches only – use up to nine Maestro companion switches with one Maestro multi-location switch.

**Companion Switch**

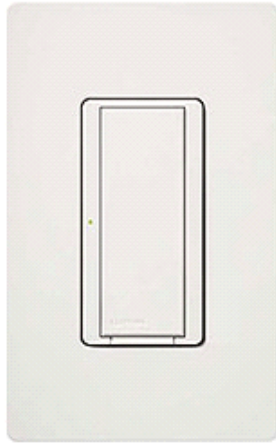
Part Number	Color	Switch Type	VAC Watts	Description
MAASWHLUT	White	Single Pole	120   600	Remote Maestro Companion Switch for multi-location use

# Controls

## Occupancy Sensors and Controls

### Maestro Wireless Local Controls

#### Spec Grade Electronic Switch



Maestro Wireless controls function much like standard dimmers and switches, but can be controlled from Pico wireless controls and Lutron ceiling mount occupancy/vacancy sensors. Local lighting controls are useful in locations where single circuits of lighting need to be dimmed or switched. Maestro wireless controls install in single-pole or multi-location applications.

Part Number	Voltage	Load Type	Minimum Load	Description
MRF28SDVWHLUT	120/277V~	Lighting	40W	Spec Grade Electronic Switch 120V~ or 277V~

#### Wireless Ceiling Mount Sensor



Lutron's occupancy and vacancy sensors are wireless ceiling-mounted battery-powered passive infrared (PIR) sensors that automatically control lights via RF communication to compatible dimming or switching devices. These sensors detect the heat from people moving within an area to determine when the space is occupied. The sensors then wirelessly transmit the appropriate commands to the associated dimming or switching devices to turn the lights on or off automatically. They combine both convenience and exceptional energy savings along with ease of installation.

Part Number	Description
LRF20CRBPWHLUT	434 MHz Occupancy/Vacancy Sensor

#### Wall Switch Sensors

##### Occupancy/Vacancy - On/Off Sensor



Maestro occupancy/vacancy sensors automatically turn the lights on and off. It's ideal for bedrooms, powder rooms, hallways, and closets at home, and for small conference rooms and storage areas in the office.

##### Features:

- Turns lights off after the room is vacated (auto-off)
- Can turn lights on (auto-on) when you enter the space
- 180° sensor field-of-view
- Up to 30 ft x 30 ft major motion coverage and 20 ft x 20 ft minor motion coverage
- Adjustable timeout - 1, 5, 15, or 30 minutes
- High-low sensitivity adjustment
- Switch lighting loads: incandescent, halogen, MLV, ELV, and non-dim fluorescent

Part Number	Color	Voltage	Description
MSOPS5AMWHLUT	White	120V	Occupancy/Vacancy Single Pole/Multi-Location Switch
MSOPS5AMLALUT	Light Almond	120V	Occupancy/Vacancy Single Pole/Multi-Location Switch
MSOPS6MDVWH6LUT	White	120V/277V	Spec Grade, Single Pole/Multi-Location Electronic Switch (6 pack)

## Occupancy Sensors and Controls

### Wall Switch Sensors

#### Passive Infrared



**Description:** The PW-100 passive infrared (PIR) wall switch sensor can turn lights off and on based on occupancy.

**Operation:** The PW-100 replaces existing wall switches and fits in a single gang junction box. It uses advanced PIR technology to detect occupancy and keep lighting on when it is needed. Once the space is vacated and the time delay elapses, lights automatically turn off. DIP switch settings allow for a variety of control options such as auto-on operation, walk-through and test modes.

**Applications:** The PW-100 sensor is well suited for small, enclosed spaces with clear line of sight of the occupant. Common applications include small office, small conference room and lunch/break rooms.

**Specifications:** Time delays: 5, 10, 15, 20, 25 or 30 minutes, walk-through, test-mode  
Coverage: Major motion 35' x 30', Minor motion 20' x 15'

Part Number	Color	Load Rating
PW100WWATT	White	@ 120 VAC, 0-800 W ballast or tungsten, 1/6 hp @ 277 VAC, 0-1200 W ballast

#### Passive Infrared - Dual Relay



**Description:** The PW-200 passive infrared (PIR) wall switch sensor turns lights on and off based on occupancy. **It contains two relays for controlling two independent lighting loads or circuits, and a variety of features.**

**Operation:** The PW-200 replaces existing wall switches and fits in a single gang junction box. Each of the PW-200's relays can control a separate lighting load. It uses advanced PIR technology to detect occupancy and turn the first relay on. Once the space is vacated and the time delay elapses, lights automatically turn off. Dual on/off buttons allow the user to manually turn on and off each of the loads. DIP switch settings allow for a variety of control options such as Manual-on or Auto-on for each relay, walk-through and test modes.

**Applications:** The PW-200 sensor is well suited for small enclosed spaces with a clear line of sight of the occupant. In addition, its dual relays allow bi-level switching or control of a secondary load. Common applications include small office, small conference room and lunch/break rooms.

**Specifications:** Time delays: 5, 10, 15, 20, 25 or 30 minutes, walk-through, test-mode  
Coverage: Major motion 35' x 30', Minor motion 20' x 15'

Part Number	Color	Load Rating
PW200WWATT	White	@ 120 VAC, 0-800 W ballast or tungsten, 1/6 hp @ 277 VAC, 0-1200 W ballast

# Controls

## Occupancy Sensors and Controls

### Wall Switch Sensors

#### Passive Infrared Wall Switch



**Description:** The WS-250 Passive Infrared (PIR) Wall Switch Sensor turns lighting on and off based on occupancy and ambient light level. It replaces existing wall switches and fits behind a standard decorator wall plate. The WS-250 improves on the WS-200, featuring a shallower housing, flying leads and new control button.

**Operation:** The WS-250 utilizes advanced PIR technology to detect occupancy. Detection occurs when the WS-250 senses the difference between infrared energy from a human body in motion and the background space. Lighting automatically turns on when occupancy is detected. After a user-specified length of time when no occupancy is detected, lighting automatically switches off. The sensor can also be used when line voltage switches for multi-level lighting.

**Applications:** The WS-250 has the flexibility to work in a variety of applications including offices, conference rooms, break rooms and utility rooms. Energy savings for these areas can be as high as 60% since lighting will no longer remain on once the room is vacant. With a competitive price, low installation cost, and high energy savings, paybacks are usually well under two years.

**Specifications:** Time delay adjustments from 30 seconds up to 30 minutes

Part Number	Color	Load Rating
WS250WWATT	White	@ 120 VAC, 0-800 W ballast or tungsten, 1/6 hp @ 277 VAC, 0-1200 W ballast
WS250IWATT	Ivory	@ 120 VAC, 0-800 W ballast or tungsten, 1/6 hp @ 277 VAC, 0-1200 W ballast

#### Ultrasonic Wall Switch



**Description:** The UW-100 ultrasonic wall switch sensor can turn lights off and on based on occupancy. It is characterized by high sensitivity to small and large movements, appealing aesthetics, and a variety of features.

**Operation:** The UW-100 fits in a single junction box. It uses high frequency (40kHz) ultrasound to detect occupancy and keep lighting on when it is needed. Once the space is vacated and the time delay elapses, lights automatically turn off. DIP switch settings allow for a variety of control options such as Auto-on operation, walk-through and test modes.

**Applications:** The UW-100 sensor is ideal for applications where the sensor may have a partially obstructed line of sight of the occupant. Common applications include individual restrooms, restrooms with two stalls and utility/storage rooms.

**Specifications:** Time delays: 5, 10, 15, 20, 25 or 30 minutes, walk-through, test-mode  
Coverage: Major motion 20' x 20', Minor motion 15' x 15'

Part Number	Color	Load Rating
UW100WWATT	White	@ 120 VAC, 0-800 W ballast or tungsten, 1/6 hp @ 277 VAC, 0-1200 W ballast

## Occupancy Sensors and Controls

### Wall Switch Sensors

#### Dual Technology - Infrared & Ultrasonic



**Description:** The DW-100 dual technology wall switch sensor combines the benefits of passive infrared (PIR) and ultrasonic technologies, and can turn lights off and on based on occupancy. It is characterized by high sensitivity to small and large movements, appealing aesthetics, and a variety of features.

**Operation:** The DW-100 fits in a single gang junction box. Once the lights are on, detection by either technology holds lights on until occupancy is no longer detected and the time delay elapses. DIP switch settings allow for a variety of control options including Auto-on operation, walk-through and test mode. By default, Auto-on turns lighting on when both PIR and ultrasonic technologies detect occupancy. Additional DIP switch settings allow the user to choose which sensing technologies turn-on and hold-on the lighting.

**Applications:** WattStopper's dual technology has the flexibility to work in a variety of applications where one technology alone may not be sufficient. Common applications include small and medium conference rooms and lunch/break rooms. In addition, dual technology sensors are the perfect choice for ADA-compliant buildings due to lower mounting height requirements.

**Specifications:** Time delays: 5, 15 or 30 minutes, walk-through, test-mode  
 Coverage: Major motion, PIR 35' x 30', Ultrasonic 20' x 20'  
 Minor motion, PIR 20' x 15', Ultrasonic 15' x 15'

Part Number	Color	Load Rating
DW100WWATT	White	@ 120 VAC, 0-800 W ballast or tungsten, 1/6 hp @ 277 VAC, 0-1200 W ballast

#### Automatic Wall Switches - 3 Wire Technology



**Features:**

- Detection Signature Analysis provides high immunity to RFI and EMI
- Compact, decorator design replaces existing wall switch
- Integrated light level sensor works from 10 to 150 foot candles
- Compatible with all electronic and magnetic ballasts, PL lamp ballasts, compact fluorescent
- Adjustable time delay of 30 seconds to 30 minutes
- Dual 120/277VAC operation, 30% to 60% energy savings
- Positive detection indicator, No minimum load requirement
- Adjustable sensitivity from 20% to 100%
- Patented voltage drop protection
- Patented Zero Crossing Circuitry
- 180 degree coverage of up to 900 sq. ft
- cULus listed, 5-year warranty

Part Number	Color	Frequency (Hz)	Voltage	Description
WSP250WPS	White	60	120/277 VAC	Wall Box Passive Infrared (PIR)



# Controls

## Occupancy Sensors and Controls

### Ceiling Sensors

#### Passive Infrared Ceiling Sensors



**Description:** WattStopper's CI-300 Passive Infrared (PIR) Ceiling Sensors automatically turn lighting on and off based on occupancy. The sensor mounts on the ceiling with a flat, low-profile appearance and provides 360 degrees of coverage.

**Operation:** CI-300 Series Sensors operate on 24 VDC, VAC or halfwave rectified. Utilizing the latest PIR technology, they automatically turn lighting on when a difference is detected between infrared energy from a human body in motion and the background space. When no occupancy is detected for the length of the time delay, lighting automatically turns off. For manual-on operation, the CI-300 will operate with a low-voltage momentary switch.

**Applications:** CI-300 Series Sensors have the flexibility to work in a variety of applications that include open office spaces, computer rooms, classrooms and warehouses. Areas with high ceilings or with two-level lighting can also be controlled. The convenient mounting system keeps installation costs down to speed up the product's payback.

**Specifications:** Time delays: Auto set, fixed (5, 10, 15, 20 or 30 minutes), walk-through, test mode

Part Number	Current	Coverage
CI3051WATT	9 mA	360°; up to 500 ft <sup>2</sup> (46.5m <sup>2</sup> )

#### Ultrasonic Ceiling Sensors



**Description:** WattStopper's UT-300 Ultrasonic Ceiling Sensors automatically turn lighting on and off based on occupancy. The sensors mount on the ceiling with a flat, unobtrusive appearance and provides 360° coverage.

**Operation:** UT-300 Series Sensors operate on 24 VDC, VAC or halfwave rectified. They use 40KHz high frequency ultrasound to sense occupancy and automatically turn lighting on. When no occupancy is detected for the length of the time delay, lighting automatically turns off. For manual-on operation, the units work with a low-voltage momentary switch.

**Application:** UT-300 Series Sensors offer excellent control of lighting for many spaces, including restrooms, large offices, open office areas and hallways. They can control large partitioned office spaces when configured in zone patterns. Unit performance combined with ease of installation will provide fast payback and many years of energy savings.

**Specifications:** Time delays: Auto set, fixed (5, 10, 15, 20 or 30 minutes), Walk-through/Test Modes

Part Number	Current	Coverage
UT3051WATT	30 mA	500 ft <sup>2</sup> (46.5m <sup>2</sup> )
UT3052WATT	30 mA	1000 ft <sup>2</sup> (92.9 m <sup>2</sup> )

#### Ultrasonic Line Voltage Ceiling Sensor



**Description:** WattStopper's low-profile UT-355 Ultrasonic Line Voltage Ceiling Sensor automatically turns lighting on and off based on occupancy. The sensor mounts on the ceiling with a flat, unobtrusive appearance and provides 360° coverage.

**Operation:** The UT-355 is the line voltage and operates at 120, 277, or 347 VAC. It uses high frequency (40 KHz) ultrasound to sense occupancy and automatically turn lighting on. When no occupancy is detected for the length of the time delay, lighting automatically turns off.

**Application:** UT sensors offer excellent control of lighting for many spaces, including restrooms and large offices. The UT sensors' performance and ease of installation will provide fast paybacks and many years of energy savings.

**Specifications:** Time delays: Auto set, fixed (5, 10, 15, 20 or 30 minutes), Walk-through, Test Modes

Part Number	Current	Coverage
UT3552WATT	30 mA	1000 ft <sup>2</sup> (92.9 m <sup>2</sup> )

## Occupancy Sensors and Controls

### Ceiling Sensors

#### Dual Technology - Infrared & Ultrasonic



**Description:** The DT-300 Series Dual Technology Ceiling Sensors combine the benefits of passive infrared (PIR) and ultrasonic technologies to detect occupancy. Sensors have a flat, unobtrusive appearance and provide 360 degrees of coverage.

**Operation:** Low voltage DT-300 Series sensors utilize a WattStopper power pack to turn lights on when both PIR and ultrasonic technologies detect occupancy. They can also work with a low voltage switch for manual-on operation. PIR technology senses motion via a change in infrared energy within the controlled area, whereas ultrasonic uses 40KHz high frequency ultrasound. Once lights are on, detection by either technology holds them on. When no occupancy is detected for the length of the time delay, lights turn off. DT-300 Series Sensors can also be set to trigger lights on when either technology or both detect occupancy, or to require both technologies to hold lighting on.

**Application:** DT-300 Series Dual Technology Sensors have the flexibility to work in a variety of applications, where one technology alone could cause false triggers. Ideal applications include classrooms, open office spaces, large offices and computer rooms. The DT-300 Series mounting system makes them easy to install in ceiling tiles or to junction boxes, providing the flexibility to be used in a wide range of spaces.

**Specifications:** Time delays: Auto set, fixed (5, 10, 15, 20 or 30 minutes), Walk-through/Test Modes  
 Built-in light level sensor: 10 to 300 footcandles (107.6 to 3,229.2 lux)  
 Multi-level Fresnel lens provides 360° coverage

Part Number	Voltage	Current	Coverage
DT305WATT	24 VDC/VAC	35 mA	up to 1000 ft <sup>2</sup> (92.9 m <sup>2</sup> )

#### Dual Technology - Line Voltage - Infrared & Ultrasonic



**Description:** WattStopper's low profile DT-3555 dual technology sensor combines the benefits of Passive infrared (PIR) and ultrasonic technologies. The sensor mounts on the ceiling with a flat, Unobtrusive appearance and provides 360 degrees of coverage.

**Operation:** The DT-355 is line voltage and operates at 120, 277 or 347 VAC. The sensor turns lighting on when both PIR and ultrasonic technologies detect occupancy. PIR technology senses the difference between infrared energy from a human body in motion and the background space. Ultrasonic technology uses high frequency (40KHz) ultrasound to sense motion within the space. Once lighting is on, detection by either technology holds lighting on. When no occupancy is detected for the length of the time delay, lighting turns off. The DT-355 can also be set so that only one technology is needed to trigger or both technologies are needed to hold lighting on.

**Application:** WattStopper's patented dual technology has the flexibility to work in a variety of applications, where one technology alone could encounter false triggers. Ideal applications include classrooms, open office spaces, large offices, and computer rooms. In addition, because the DT-355 can be mounted on a variety of junction boxes, the sensor has the flexibility to be used in a wide range of spaces. The sensors eliminate the need for a power pack by using line voltage wiring.

**Specifications:** 120/277/347 VAC, 50/60 Hz  
 Time delays: Auto set, fixed (5, 10, 15, 20 or 30 minutes), walk-through, test-mode

Part Number	Load Rating	Coverage
DT355WATT	0-800 W Ballast/Tungsten, 0-1200 W Ballast, or 0-1500 W Ballast	up to 1000 ft <sup>2</sup> (92.9 m <sup>2</sup> )

# Controls

## Occupancy Sensors and Controls

### Power Pack

#### Universal Voltage



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

**Operation:** The BZ-50 consists of a high-efficiency switching power supply and a high-current relay. It has an input of 120/277 VAC, 50/60Hz, and an output of 24VDC, 225mA. It turns the connected load on and off automatically based on occupancy sensor input.

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

Part Number	Input Voltage	Load Ratings			Output
		Ballast(A)	Incan(A)	Motor(HP)	
BZ50WATT	120/277 VAC; 50/60 Hz	20	20	1*	24 VDC; 225 mA**

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