



DT-355 Line Voltage 360° Dual Tech Sensor



Product Overview

Description

The Watt Stopper's low profile DT-355 dual technology occupancy 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, 230, 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 the Doppler Principle and 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.

SmartSet

Using SmartSet™ technology, the DT-355 requires no adjustment at installation. SmartSet continuously monitors the controlled space to identify usage patterns. Using this information, it automatically adjusts the time delay and sensitivity settings for optimal performance and energy efficiency. The sensor assigns short delays (as low as 5 minutes) for times when the space is usually vacant, and longer delays (up to 30 minutes) for busier times.

Applications

The Watt Stopper'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 onto 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.

Features

- Advanced control logic based on RISC microcontroller provides:
 - Detection Signature Processing eliminates false triggers and provides immunity to RFI and EMI
 - SmartSet automatically adjusts sensitivity and time delay settings to fit occupant patterns
 - Walk-through mode turns lights off 3 minutes after the area is initially occupied – ideal for brief visits such as mail delivery
 - Built-in light level sensor featuring simple, one-step setup
- Ultrasonic diffusion technology spreads coverage to a wider area (patent pending)
- DIP switch simplifies sensor adjustments
- LEDs indicate occupancy detection
- Uses existing line voltage wiring and doesn't require a power pack
- 6 occupancy logic options give users the ability to customize control to meet application needs



www.wattstopper.com
800.879.8585



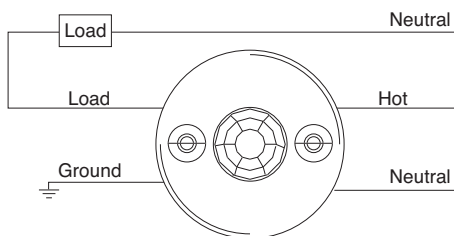
DT-355 Technical Information

Specifications

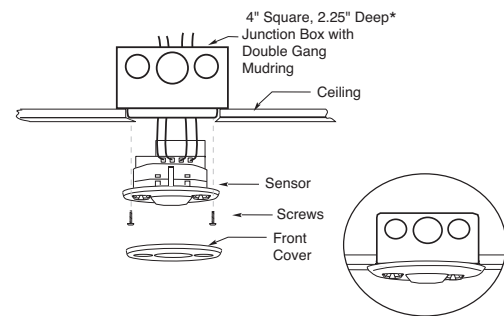
- 120/230/277/347 VAC, 50/60 Hz
- Ultrasonic frequency of 40kHz
- Time delays: SmartSet (automatic), fixed (5, 10, 15, 20, or 30 minutes), walk-through, test-mode
- Sensitivity adjustment: SmartSet (automatic) or reduced sensitivity (for PIR sensitivity); ultrasonic sensitivity is variable with trimpot
- Built-in light level sensor – works from 10 to 300 footcandles
- Multi-level, 360° Fresnel lens for superior occupancy detection
- Dimensions: 4.50" diameter x 1.02" deep (114.3mm x 25.91mm)
- UL and CUL listed; Five year warranty

Wiring & Installation

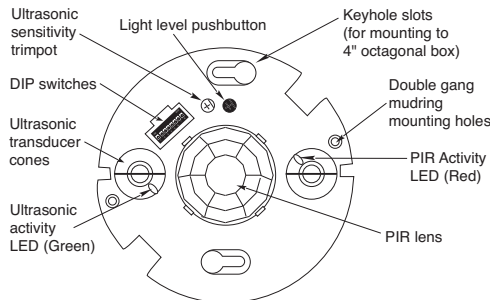
DT-355 Wiring Diagram



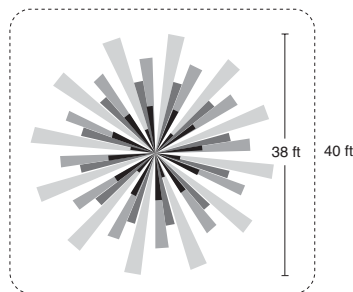
Ceiling Mounting



DT-355 Product Controls



Coverage



Coverage shown is maximum and represents half-step walking motion. Under ideal conditions, coverage for half-step walking motion can reach up to 1000 sq ft.

DIP Switch Settings

◀ = Factory Setting
● = ON
- = OFF

		Switch#		
		1	2	3
Occupancy Logic	Standard	-	-	-
	Option 1	●	-	-
	Option 2	-	●	-
	Option 3	●	●	-
	Option 4	-	-	●
	Option 5	●	●	●
		Time Delay		
		4	5	6
		5 sec/SmartSet	▲	-
		5 minutes	-	●
		10 min.	▲	-
		10 minutes	-	●
		15 min.	▲	-
		15 minutes	●	●
		20 minutes	-	●
		30 min.	▲	●
		▲ = walk-through mode		
Occupancy Logic	Trigger			
	Standard	Both	Either	Either(n/a)
	Option 1	Either	Either	Either(n/a)
	Option 2	PIR	Either	Either(n/a)
	Option 3	Both	Both	Both(5)
	Option 4	PIR	PIR	PIR(5)
	Option 5	Ultra	Ultra	Ultra(5)
		LEDs		
		7		
		Disabled	-	
		Enabled	●	◀
		PIR Sensitivity		
		8		
		Minimum	-	
		Max./SmartSet	●	◀

The technology control (occupancy logic) options are adjustable by user. The standard setting (recommended for most applications) is both technologies to trigger on, either to hold on.

Ordering Information

Catalog No.	Description	Voltage	Load	Coverage
DT-355	Dual technology sensor, 360°	120 VAC, 50/60 Hz	0-800W Ballast/Tungsten	up to 1000 sq ft
		230/277 VAC, 50/60 Hz	0-1200W Ballast	
		347 VAC, 50/60 Hz	0-1500W Ballast	

Sensors are white.