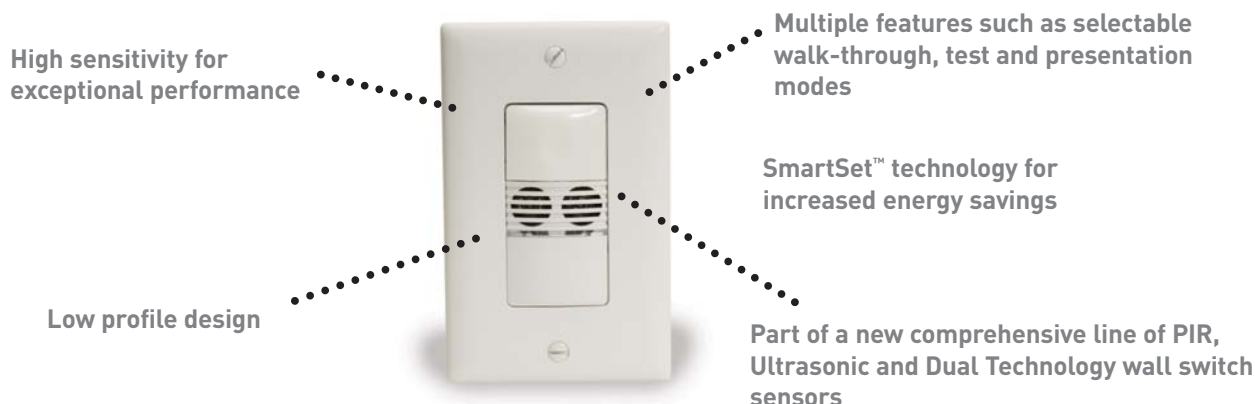




# UW-100 Ultrasonic Wall Switch Sensor



PROJECT
LOCATION/TYPE

## Product Overview

### Description

The UW-100 ultrasonic wall switch sensor turns lights ON and OFF based on occupancy. It is characterized by high sensitivity to small and large movements, appealing aesthetics, and variety of features.

### Operation

The UW-100 fits in a single junction box. It uses Doppler Principle and high frequency (40kHz) ultrasound to detect occupancy and turn lighting ON. 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 or Manual-ON operation, walk-through, and test modes.

### SmartSet™

Using SmartSet technology, the UW-100 continuously monitors the controlled space to identify usage patterns and automatically adjust the time delay for optimal energy efficiency. The sensor assigns short delays (as low as seven minutes) for times when the space is usually vacant, and longer delays (up to 30 minutes) for busier times. SmartSet is also able to differentiate electrical noise from human motion for greater performance.

### Applications

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

## Features

- Detection Signature Processing eliminates false triggers and provides immunity to RFI and EMI
- Zero-crossing for long relay life
- Choice of Auto-ON or Manual-ON operation
- Selectable SmartSet automatically adjusts time delay for maximum savings
- Selectable walk-through mode turns lights off three minutes after the room is initially occupied if no motion is detected after the first 30 seconds
- Selectable test mode allows quick and easy adjustments
- Selectable audible and/or visual alerts for impending shutoff
- In automatic mode, sensor returns automatically to Auto-ON after lights are turned off manually; ideal for presentations
- LED indicates occupancy detection
- Features built-in light level sensing with simple, one-step setup
- Override mode allows sensor to operate as a service switch in the unlikely event of a failure
- NEMA WD 7 guideline utilized for coverage testing



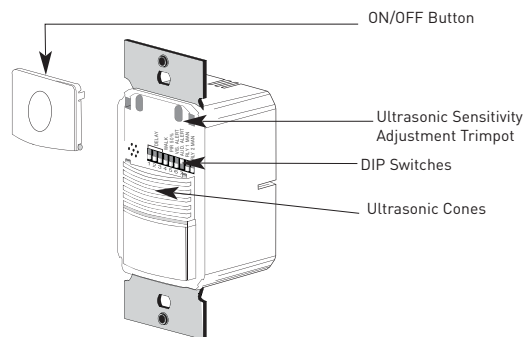
## Specifications

- UW-100: 120/230/277 VAC; 50/60 Hz  
@ 120 VAC, 0-800 W ballast or tungsten, 1/6 hp  
@ 230/277 VAC, 0-1200 W ballast
- UW-100-347: 347 VAC; 50/60Hz, 0-1500 W ballast
- Time delays: SmartSet (automatic), fixed (5, 10, 15, 20, 25 or 30 minutes), walk-through, test-mode

- Coverage: Major motion 20' x 20'  
Minor motion 15' x 15'
- Sensitivity adjustment: Ultrasonic (fully variable)
- Dimensions: 2.73" x 1.76" x 1.83"  
(69.3mm x 44.7mm x 46.5mm) L x W x D
- UL and CUL listed; five year warranty

## Controls & Settings

### Product Controls



### DIP Switch Settings

Time Delay	1	2	3
Auto/Test	↓	↓	↓
5 minutes	↓	↓	↑
10 minutes	↓	↓	↑
15 minutes	↓	↓	↑
20 minutes	↓	↓	↑
25 minutes	↓	↓	↑
30 minutes	↓	↓	↑
override	↑	↑	↑

Walk-Through	4
Disabled	↓
Enabled	↑

Visible Alert	5
Disabled	↓
Enabled	↑

Audible Alert	6
Disabled	↓
Enabled	↑

Relay 1 Mode	7
Auto On	↓
Manual On	↑

Relay 2 Mode	8
Auto On	↓
Manual On	↑

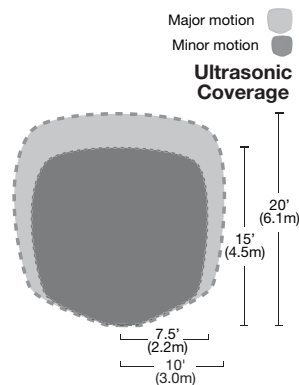
No Function	9

⬆=ON ⬆=OFF ⬆=Factory Setting

Ⓢ Bypass occupancy & light level functions. Disable ultrasonic transmissions. Loads are manually controlled with UW buttons.

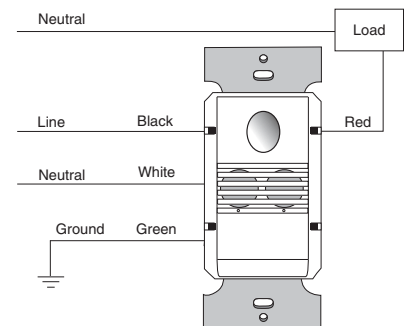
## Coverage & Wiring

### Coverage Pattern



\* For best performance, Watt Stopper/Legrand recommends using this sensor in spaces no larger than 15' x 15'

### UW-100/347 Single Level Lighting



## Ordering Information

Catalog No.	Color	Voltage	Load Rating
<input type="checkbox"/> UW-100-W	White	120/230/277 VAC; 50/60 Hz	@ 120 VAC, 0-800 W ballast or tungsten, 1/6 hp @ 230/277 VAC, 0-1200 W ballast
<input type="checkbox"/> UW-100-LA	Lt. Almond		
<input type="checkbox"/> UW-100-I	Ivory		
<input type="checkbox"/> UW-100-G	Grey		
<input type="checkbox"/> UW-100-B	Black		
<input type="checkbox"/> UW-100-347-W	White	347 VAC; 50/60 Hz	0-1500 Watt Ballast
<input type="checkbox"/> UW-100-347-LA	Lt. Almond		
<input type="checkbox"/> UW-100-347-I	Ivory		
<input type="checkbox"/> UW-100-347-G	Grey		
<input type="checkbox"/> UW-100-347-B	Black		

One ASP-211 single-gang cover plate included. Order ASP-422 for blank 2-gang cover plate, ASP-432 for 2-gang cover plate with switch option (specify color).