UW-200 Ultrasonic Dual Relay Wall Switch Sensor

High sensitivity for exceptional performance

Two relays for control of two separate lighting loads or circuits

Low profile design

Multiple features such as selectable walk-through, test and presentation modes

SmartSet™ technology for increased energy savings

Part of a new comprehensive line of PIR, Ultrasonic and Dual Technology wall switch sensors

PROJECT

LOCATION/TYPE

Product Overview

Description

The UW-200 ultrasonic wall switch sensor turns lights ON and OFF based on occupancy. It contains two relays for controlling two independent lighting loads or circuits and features our innovative SmartSet™ technology.

Operation

The UW-200 fits in a single gang 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. Each of the UW-200's relays can control a separate lighting load and each can be set for either automatic or manual-ON. 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 Auto-ON or Manual-ON operation, walk-through, and test modes.

Bi-Level Control

The UW-200 features a built-in light level sensor that controls the second (secondary) relay. If adequate daylight is present, the sensor will hold secondary lights off until daylight levels drop, providing increased energy savings. The UW-200 satisfies energy codes requiring bi-level or daylight control switching. The two relays in the sensor give it the ability to control two lighting loads independently. This provides A/B switching where the user can achieve half-lighting (or another desired portion) from a single switch.

Applications

The UW-200 sensor is ideal for applications where the sensor may have a partially obstructed line of sight on the occupant. In addition, its dual relays allow bi-level switching or control of a secondary load such as an exhaust fan. Common applications include individual restrooms, restrooms with two stalls and utility/storage rooms.

Features

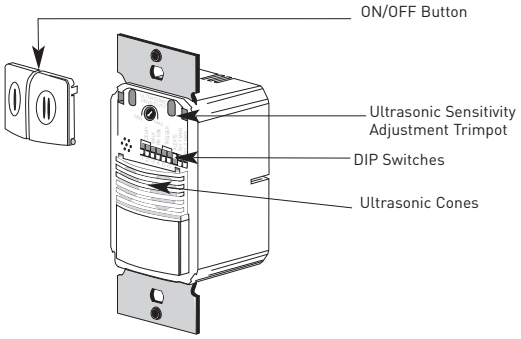
- Detection Signature Processing eliminates false triggers and provides immunity to RFI and EMI
- Zero-crossing on both relays for long relay life
- Choice of Auto-ON or Manual-ON operation, selectable for each relay
- Selectable SmartSet automatically adjusts time delay for maximum savings
- Selectable 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

- 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
- 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

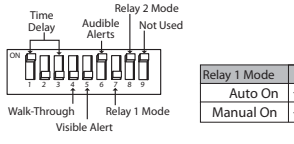


DIP Switch Settings

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	↑

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



Visible Alert	5
Disabled	↓ ◀
Enabled	↑

Audible Alert	6
Disabled	↓
Enabled	↑ ◀

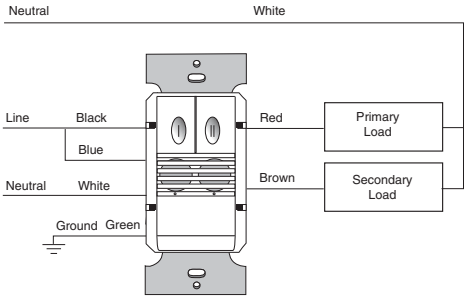
Relay 1 Mode	7
Auto On	↓ ◀
Manual On	↑

Relay 2 Mode	8
Auto On	↓
Manual On	↑ ◀

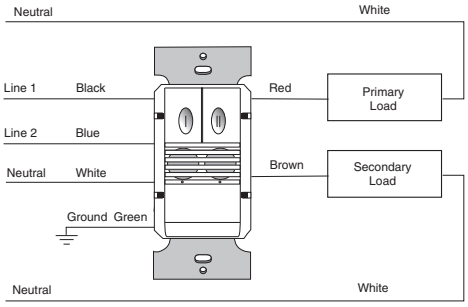
↑=ON ↓=OFF ◀=Factory Setting

Wiring

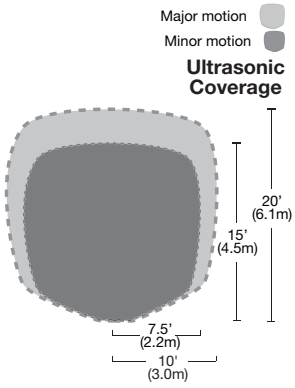
UW-200 Bi-level Level Wiring



UW-200 Two Circuit Level Wiring



Coverage



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

Ordering Information

Catalog No.	Color	Voltage	Load Rating
☐ UW-200-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
☐ UW-200-LA	Lt. Almond		
☐ UW-200-I	Ivory		
☐ UW-200-G	Grey		
☐ UW-200-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).

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