ULTRASONIC DUAL RELAY WALL SWITCH OCCUPANCY SENSOR

UW-200

High sensitivity for exceptional performance

Two relays for control of two separate lighting loads or circuits

Low profile design

Selectable operation, walk-through, test and presentation modes for increased energy savings and convenience

Defaults to Auto-ON to 50% operation for maximum energy savings

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

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 a variety of features.

OPERATION

The UW-200 fits in a single gang junction box. Each of the UW-200's relays can control a separate lighting load. It uses high frequency (40kHz) ultrasound 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.

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 of 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

- Complies with 2011 NEC requirements
- Detection Signature Processing eliminates false triggers and provides immunity to RFI and EMI
- Zero-crossing on both relays for long relay life
- Choice of Manual-ON or Auto-ON operation, selectable for each relay
- 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
- 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
- Optional light level sensing with simple setup
- Service mode allows sensor to operate as a service switch in the unlikely event of a failure
- Sensor coverage tested to NEMA Guide Publication WD 7-2000
- Compatible with decorator wall plates

PROJECT		LOCATION/ TYPE	

SPECIFICATIONS

- 120/277 VAC; 50/60 Hz
  - @ 120 VAC, 0-800 W ballast or tungsten,1/6 hp
  - @ 277 VAC, 0-1200 W ballast
- 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'

- 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

ON/OFF Buttons

Ultrasonic Sensitivity Adjustment Trimpot

DIP Switches

Ultrasonic Cones
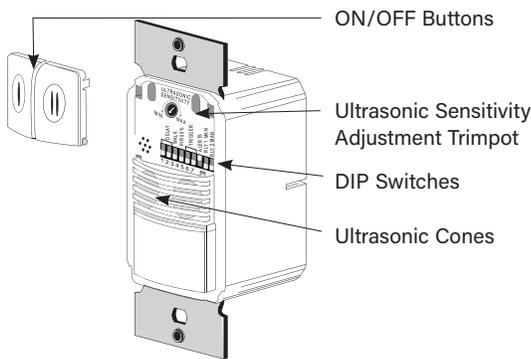
DIP Switch Settings

Time Delay	1	2	3
Test	↓	↓	↓
5 minutes	↓	↓	↑
10 minutes	↓	↑	↓
15 minutes	↓	↑	↑
20 minutes	↑	↓	↓ ◄
25 minutes	↑	↓	↑
30 minutes	↑	↑	↓
⊘ Service	↑	↑	↑

Walk-Through	4
Disabled	↓ ◄
Enabled	↑

⊘ Service bypasses occupancy & light level functions. Control loads manually using ON/OFF buttons.

Time Delay
Audible Alerts
Relay 2 Mode
Not Used
Walk-Through
Visible Alert
Relay 1 Mode

Visible Alert	5
Disabled	↓ ◄
Enabled	↑

Audible Alert	6
Disabled	↓
Enabled	↑ ◄

Relay 1 Mode	7
Auto On	↓ ⚠
Manual On	↑ ⚠

UW-200 ONLY

Relay 2 Mode	8
Auto On	↓
Manual On	↑ ◄

No Function	9

Factory Settings:
◄ All models
⚠ UW-100 series
⚠ UW-200 series
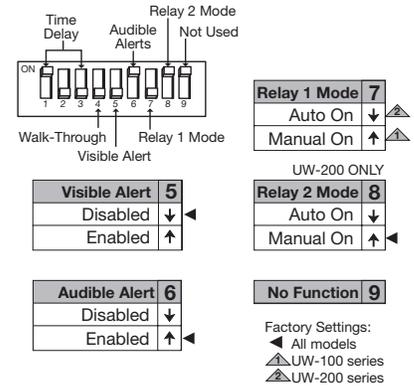
WIRING

UW-200 Bi-level Wiring

Neutral
White
Line — Black
Blue
Neutral — White
Ground Green
Red
Brown
Primary Load
Secondary Load
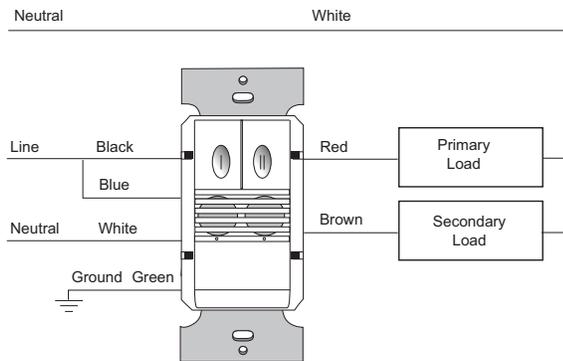
UW-200 Two Circuit Wiring

Neutral
White
Line 1 — Black
Line 2 — Blue
Neutral — White
Ground Green
Red
Brown
Primary Load
Secondary Load
Neutral
White
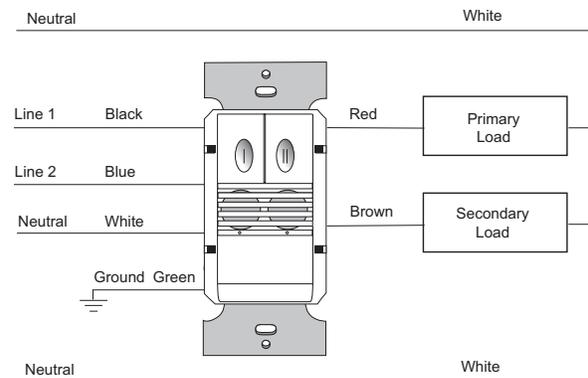
COVERAGE

For best performance, Wattstopper recommends using this sensor in spaces no larger than 15' x 15'.

Major motion
Minor motion

Ultrasonic Coverage

20' (6.1m)
15' (4.5m)
7.5' (2.2m)
10' (3.0m)
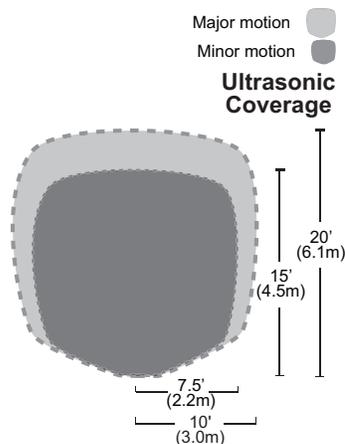
ORDERING INFORMATION

Catalog #		Color	Voltage	Load Rating
☐	UW-200-W	White	120/277 VAC; 50/60 Hz	@ 120 VAC, 0-800 W ballast or tungsten, 1/6 hp @ 277 VAC, 0-1200 W ballast
☐	UW-200-LA	Light Almond		
☐	UW-200-I	Ivory		
☐	UW-200-G	Gray		
☐	UW-200-B	Black		

Order wall plate separately.

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