

# DUAL TECHNOLOGY MULTI-WAY DUAL RELAY WALL SWITCH OCCUPANCY SENSOR

| DW-203

High sensitivity and dense coverage for exceptional performance

Two relays for control of two separate lighting loads or circuits

Color-matched lens and low profile for appealing design



Allows multi-way control from one of up to four control locations

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

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



## Description

The DW-203 dual technology multi-way wall switch sensor combines the benefits of passive infrared (PIR) and ultrasonic technologies to turn lights ON and OFF based on occupancy. It has two relays for controlling two independent lighting loads or circuits and a variety of features.

## Operation

The DW-203 fits in a single gang box. By default, when both PIR and ultrasonic technologies detect occupancy, it turns the first relay ON. Continued detection by either technology keeps lights ON until occupancy is no longer detected and a time delay elapses. Dual ON/OFF buttons allow the user to manually switch each load, and each relay may be set to Manual-ON or Auto-ON. The DW-203 features a light level sensor that controls the second relay when it is in Auto-ON mode. If adequate daylight is present, the sensor will hold the second relay off until daylight levels drop.

## Features

- Complies with 2011 NEC requirements
- Detection Signature Processing eliminates false triggers and provides immunity to RFI and EMI
- Zero-crossing for long relay life
- Vandal resistant lens combines precise coverage with durability
- 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 alert for impending shutoff
- In automatic mode, sensor returns automatically to Auto-ON after lights are turned off manually; ideal for presentations
- Four occupancy logic options give users the ability to customize control
- 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

## Multi-way Control

Multiple DW-203 sensors may be connected for control from up to four locations, and provide true multi-way functionality. When Manual-ON mode is active, an occupant must press an ON/OFF button on one of the sensors to turn a load ON. When Auto-ON mode is active, the load will automatically turn ON when occupancy is detected by one of the sensors. Lights will remain ON as long as occupancy is detected. The last sensor to detect occupancy will turn the loads OFF after the time delay has elapsed. In either operating mode, an occupant may turn the load OFF manually.

## Applications

Dual technology is recommended for spaces where one technology alone may not be sufficient. Applications include private offices, conference rooms and lunch/break rooms with multiple switch locations. Dual technology sensors may be mounted at a height suitable for ADA compliance.

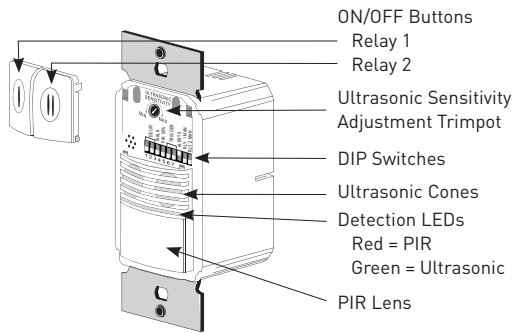
PROJECT		LOCATION/ TYPE	
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## Specifications

- DW-203: 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, 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'
- Sensitivity adjustment: PIR (high/low), 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

<b>Time Delay</b>	1	2
Test/20 min	↓	↓
5 minutes	↓	↑
15 minutes	↑	↓
30 minutes	↑	↑

<b>Walk-Through</b>	3
Enabled	↑
Disabled	↓

<b>PIR Sensitivity</b>	4
Low, 50%	↑
High	↓

<b>Trigger Mode</b>	Initial Occupancy	Maintain Occupancy	Re-trigger	5	6
Standard	Both	Either	Either	↓	↓
Option A	PIR	Either	Either	↓	↓
Option B	PIR	PIR	PIR	↑	↑
Option C	Both	Both	Both	↑	↑

<b>Audible Alert</b>	7
Enabled	↑
Disabled	↓

<b>Relay 1 On Mode</b>	8
Manual On	↑
Auto On	↓

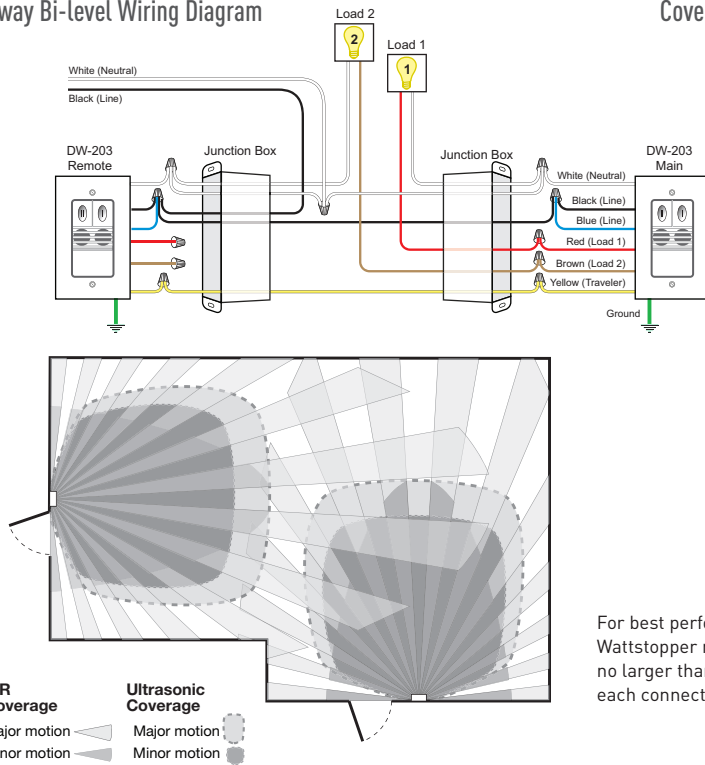
<b>Relay 2 On Mode</b>	9
Manual On	↑
Auto On	↓

Factory Settings: ◀

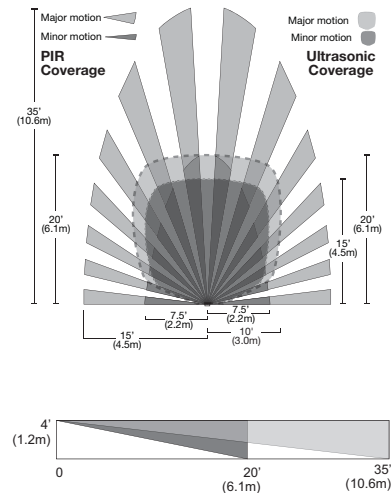
↑ = ON ↓ = OFF

## Wiring & Coverage

### Multi-way Bi-level Wiring Diagram



### Coverage Patterns



For best performance in single location applications, Wattstopper recommends using this sensor in spaces no larger than 18' x 15'. In multi-way applications, each connected sensor expands the coverage area.

## Ordering Information

Catalog #	Color	Voltage	Load Rating
<input type="checkbox"/> DW-203-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
<input type="checkbox"/> DW-203-LA	Lt. Almond		
<input type="checkbox"/> DW-203-I	Ivory		
<input type="checkbox"/> DW-203-G	Grey		
<input type="checkbox"/> DW-203-B	Black		

Order wall plate separately.