

# PASSIVE INFRARED MULTI-WAY DUAL RELAY WALL SWITCH OCCUPANCY SENSOR

| PW-203

High sensitivity and dense coverage for exceptional performance

Two relays for control of two separate lighting loads

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

Defaults to Auto-ON operation for greatest energy savings



## Description

The PW-203 passive infrared (PIR) multi-way wall switch sensor turns lights ON and OFF based on occupancy. It contains two relays for controlling two independent lighting loads and a variety of features.

## Operation

The PW-203 replaces existing wall switches and fits in a single gang box. Each of the PW-203's relays can control a separate lighting load. It uses advanced PIR technology 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 switch each of the loads, and each relay can be set for Manual-ON or Auto-ON. The PW-203 features a built-in light level sensor that controls the second relay. If adequate daylight is present, the sensor will hold the second relay off until daylight levels drop for increased energy savings.

## Features

- Detection Signature Processing eliminates false triggers and provides immunity to RFI and EMI
- Zero-crossing on both relays 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 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

## Multi-way Control

Multiple PW-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

The PW-203 sensor is well suited for spaces requiring bi-level lighting control, or control of two independent loads, that have multiple doorways or switch locations. Common applications include small offices, small conference rooms and lunch/break rooms.

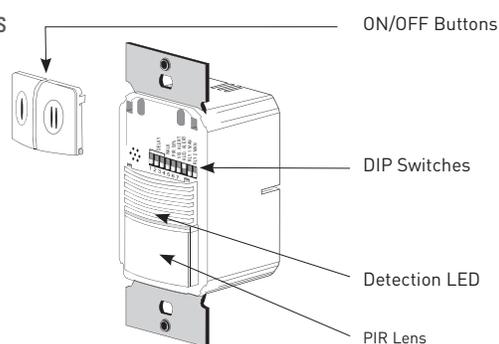
PROJECT		LOCATION/ TYPE	
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## Specifications

- 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 35' x 30'  
Minor motion 20' x 15'
- Sensitivity adjustment: PIR (high/low)
- 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
Test/20 min	↓	↓	↓
5 minutes	↓	↓	↑
10 minutes	↓	↑	↓
15 minutes	↓	↑	↑
20 minutes	↑	↓	↓
25 minutes	↑	↓	↑
30 minutes	↑	↑	↓
Service	↑	↑	↑

Walk-Through	4
Enabled	↑
Disabled	↓

Visible Alert	6
Enabled	↑
Disabled	↓

Relay 1 Mode	8
Manual On	↑
Auto On	↓

Relay 2 Mode	9
Manual On	↑
Auto On	↓

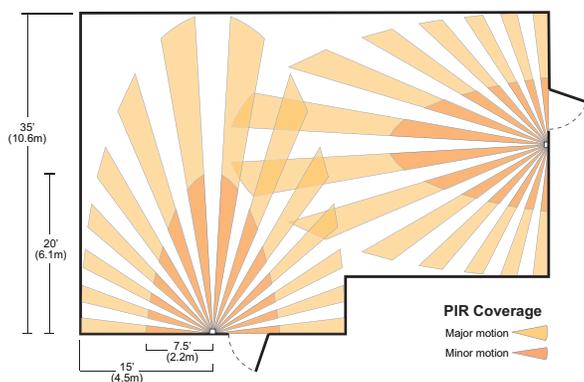
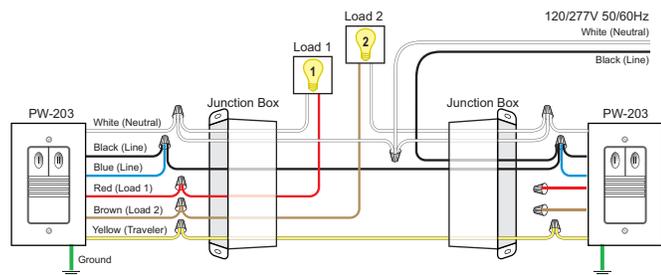
Audible Alert	7
Enabled	↑
Disabled	↓

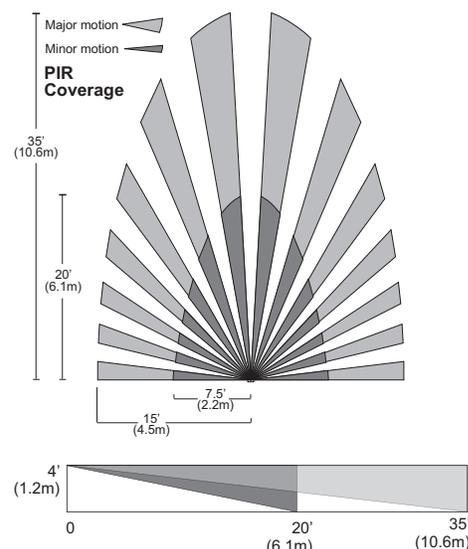
Service bypasses occupancy & light level functions. Control the load manually using ON/OFF button.    ↑=ON ↓=OFF    ◀=Factory Setting

## Coverage & Wiring

### 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 15' x 12'. In multi-way applications, each connected sensor expands the coverage area.

## Ordering Information

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

Order wall plate separately.