PASSIVE INFRARED DUAL RELAY WALL SWITCH OCCUPANCY SENSOR

PW-200

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

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

DESCRIPTION

The PW-200 passive infrared (PIR) 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 PW-200 replaces existing wall switches and fits in a single gang junction box. Each of the PW-200'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 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 PW-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 PW-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 PW-200 sensor is well suited for small, enclosed spaces with a clear line of sight of the occupant. In addition, its dual relays allow bi-level switching or control of a secondary load. Common applications include small office, small conference room and lunch/break rooms.

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

- LED indicates occupancy detection
- 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
- 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
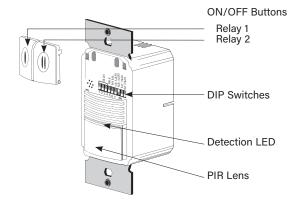- BAA/TAA-compliant models available

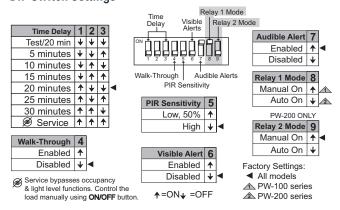| PROJECT		LOCATION/TYPE	

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SPECIFICATIONS

- PW-200: 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

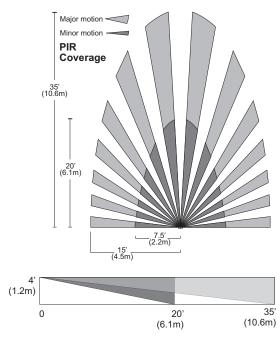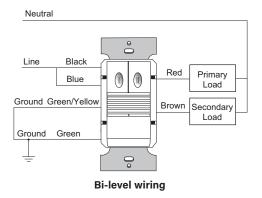## CONTROLS & SETTINGS

Product Controls

ON/OFF Buttons
Relay 1
Relay 2

DIP Switches

Detection LED

PIR Lens

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	↓ ◄

⊘ Service bypasses occupancy & light level functions. Control the load manually using **ON/OFF** button.

Time Delay — Visible Alerts — Relay 1 Mode — Relay 2 Mode

ON
1 2 3 4 5 6 7 8 9

Walk-Through — Audible Alerts
PIR Sensitivity

PIR Sensitivity	5
Low, 50%	↑
High	↓ ◄

Visible Alert	6
Enabled	↑
Disabled	↓ ◄

↑=ON ↓ =OFF

Audible Alert	7
Enabled	↑ ◄
Disabled	↓

Relay 1 Mode	8
Manual On	↑ ⚠
Auto On	↓ ⚠

PW-200 ONLY

Relay 2 Mode	9
Manual On	↑ ◄
Auto On	↓

Factory Settings:
◄ All models
⚠ PW-100 series
⚠ PW-200 series

COVERAGE & WIRING

Coverage Pattern

Major motion
Minor motion
PIR Coverage

35' (10.6m)

20' (6.1m)

7.5' (2.2m)
15' (4.5m)

4' (1.2m)

0   20' (6.1m)   35' (10.6m)

For best performance, Wattstopper recommends using this sensor in spaces no larger than 15' x 12.'

Wiring Diagrams

Neutral

Line — Black
Blue — Red — Primary Load
Ground Green/Yellow
Brown — Secondary Load
Ground Green

Bi-level wiring

Neutral

Line 1 — Black
Line 2 — Blue — Red — Primary Load
Ground Green/Yellow
Brown — Secondary Load
Ground Green

Neutral

Two circuit wiring

ORDERING INFORMATION

Catalog #	Color	Voltage	Load Rating
☐ PW-200-W	White	120/277 VAC; 50/60 Hz 2-wire sensor; no neutral connection	@ 120 VAC, 0-800 W ballast or tungsten, 1/6 hp @ 277 VAC, 0-1200 W ballast
☐ PW-200-LA	Light Almond		
☐ PW-200-I	Ivory		
☐ PW-200-G	Gray		
☐ PW-200-B	Black		

Order wall plate separately.

-U = BAA/TAA compliant; product is compliant with Buy American Act and Trade Agreement Act.

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27372r2 Rev 07/2021

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