



OPERATION

The PW-100D replaces existing wall switches and fits in a single gang junction box. Factory default operation is for Manual-ON. It uses advanced PIR technology to detect occupancy and keep lighting on when it is needed. Once the space is vacated and the time delay elapses, lights automatically fade OFF. The ramp and fade times can be fast or slow. DIP switch settings allow for control options including Auto-ON to the last used level or a locked preset level, walk-through and test modes. The PW-100D passive infrared (PIR) dimmable wall switch sensor can turn light OFF and ON based on occupancy. It is characterized by high sensitivity to small and large movements, appealing aesthetics, and a variety of features.

APPLICATIONS

The PW-100D sensor is well suited for small, enclosed spaces with clear line of sight of the occupant. Common applications include small offices and small conference rooms.

DIMMING CONTROL

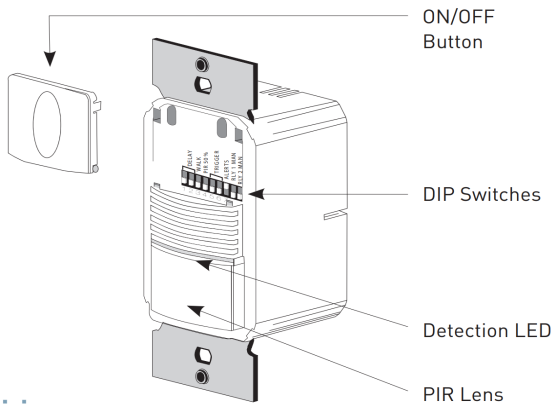
The PW-100D can dim lighting from a minimum level of 10% to full output. When the pushbutton is pressed and held, lighting will ramp up or dim down. The dimming direction is reversed when the pushbutton is momentarily released and then pressed and held again. To save energy and increase lamp life, the PW-100D is shipped with a factory preset of 85%. This preset level may be changed to any lighting level.

DESCRIPTION

- 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 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 shut-off
- Can dim lights to any level without affecting the preset level
- Preset ramp and fade times
- 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
- 2-wire and 3-wire models available for applications with or without neutral wire
- Sensor coverage tested to NEMA Guide Publication WD 7-2000
- Compatible with decorator wall plates

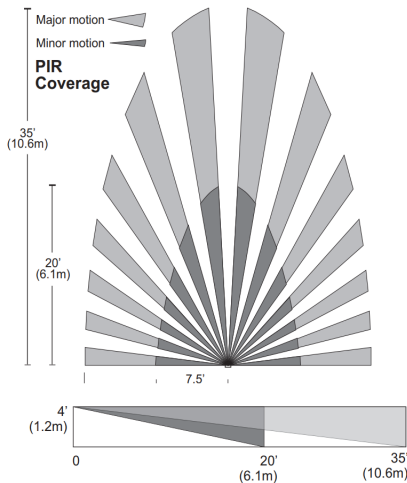
Product Number	Dimensions	Wattage	Voltage	Frequency (Hz)
PW-100D	2.73" x 1.76" x 1.83" (69.3mm x 44.7mm x 46.5mm) L x W x D	120VAC, 0-700 W 277VAC, 0-1200 W	120/277 V	50/60
PW-101D	2.73" x 1.76" x 1.83" (69.3mm x 44.7mm x 46.5mm) L x W x D	120VAC, 0-700 W 277VAC, 0-1200 W	120/277 V	50/60

PRODUCT CONTROLS



COVERAGE PATTERN

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

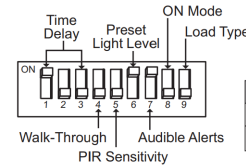


DIP SWITCH SETTINGS

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



PIR Sensitivity	5
Low, 50%	↑
High	↓

Preset Light Level	6
Locked level	↑
Last level set	↓

*Factory default 85%

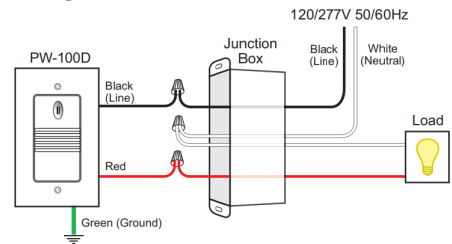
Audible Alert	7
Enabled	↑
Disabled	↓

ON Mode	8
Manual On	↑
Auto On	↓

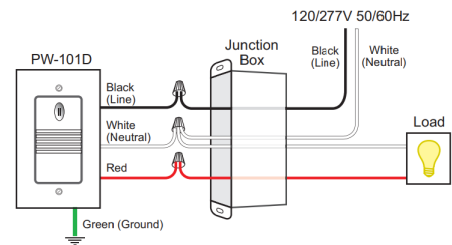
Load Type	9
Fluorescent	↑
Incandescent	↓

WIRING DIAGRAMS

Wiring for PW-100D with no neutral wire run to the dimmer



Wiring for PW-101D with a neutral connection.



CATALOG#

PW-100D-W
PW-100D-LA
PW-100D-I
PW-100D-G
PW-100D-B

COLOR

White
Lt.Almond
Ivory
Grey
Black

VOLTAGE

120/277 VAC; 50/60 Hz
2-wire sensor; no neutral connection

LOAD RATING

@120 VAC, 0-700W Incandescent or 2-wire fluorescent dimming ballast (Advance Mark 10 or equivalent)

@277 VAC, 0-1200 W 2-wire fluorescent dimming ballast (Advanced Mark 10 or equivalent)

PW-101D-W
PW-101D-LA
PW-101D-I
PW-101D-G
PW-101D-B

White
Lt. Almond
Ivory
Grey
Black

120/277 VAC; 50/60Hz
3-wire sensor; requires neutral connection

@120 VAC, 0-700 W Incandescent, MLV,ELV, cold cathode or 2-wire fluorescent dimming ballast (Advanced Mark 10 or equivalent)

@277 VAC, 0-1200 W 2-wire fluorescent dimming ballast (Advanced Mark 10 or equivalent)