

DUAL TECHNOLOGY MULTI-WAY WALL SWITCH OCCUPANCY SENSOR

| DW-103

High sensitivity and dense coverage for exceptional performance

Defaults to Manual-ON operation for maximum energy savings

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-103 dual technology multi-way wall switch sensor combines the benefits of passive infrared (PIR) and ultrasonic technologies, and can turn lights OFF and ON based on occupancy. It provides high sensitivity to small and large movements, appealing aesthetics and a variety of features.

Operation

The DW-103 replaces existing wall switches and fits in a single gang junction box. Factory default operation is for Manual-ON, and detection by either technology keeps lights ON until occupancy is no longer detected and a time delay elapses. DIP switch settings allow control options including Auto-ON operation, walk-through and test modes. Additional DIP switches determine which sensing technologies turn ON and hold ON the lighting. Multiple DW-103 sensors may be used for control of one or more loads from up to four locations.

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 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 to meet application needs
- 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

The DW-103 offers true multi-way functionality. When connected sensors are in Manual-ON mode, an occupant must press the ON/OFF button of one of the sensors to turn the load ON. When sensors are in Auto-ON mode, 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 load OFF after the time delay has elapsed. In either operating mode, an occupant may turn the load OFF manually.

Applications

Wattstopper's dual technology is recommended for spaces where one technology alone may not be sufficient. Common applications include private offices, conference rooms and lunch/break rooms. Additionally, dual technology sensors may be mounted at a height suitable for ADA compliance.

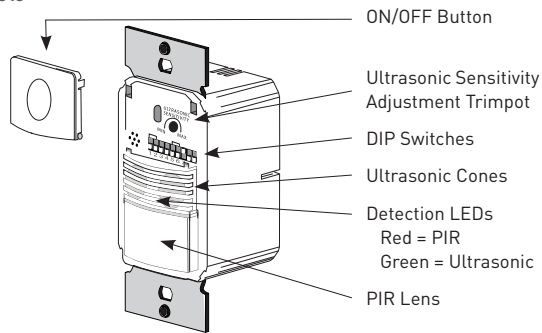
PROJECT		LOCATION/ TYPE	
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Specifications

- DW-103: 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'
- Ultrasonic Frequency: 40kHz
- 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

Time Delay 1 2	Time Delay	ON Mode	Not Used
Test/20 min ↓	↓	1	9
5 minutes ↑	↑	2	8
15 minutes ↑	↑	3	7
30 minutes ↑	↑	4	6

Walk-Through PIR Sensitivity Audible Alerts

Walk-Through 3	Walk-Through	Audible Alert 7
Enabled ↑	↑	Enabled ↑
Disabled ↓	↓	Disabled ↓

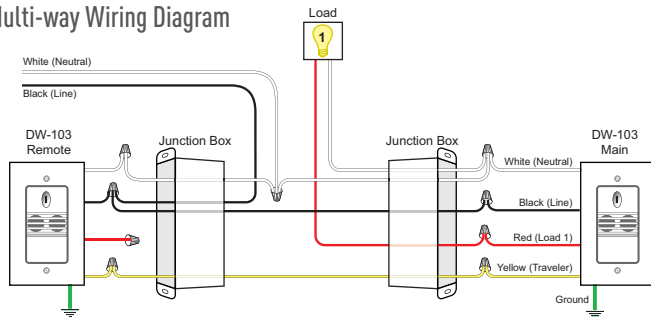
PIR Sensitivity 4	PIR Sensitivity	ON Mode 8
Low, 50% ↑	↑	Manual On ↑
High ↓	↓	Auto On ↓

Trigger Mode	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	↑	↑

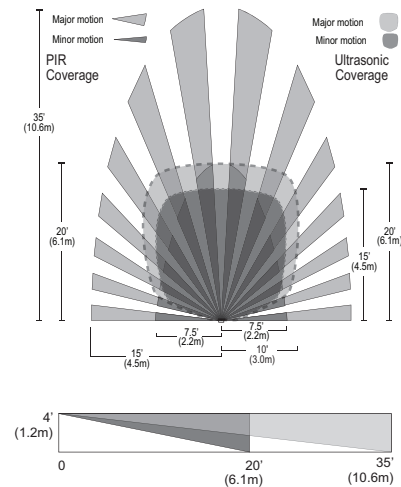
Switch 9 is not used
↑ = ON ↓ = OFF
← = Factory Setting

Wiring & Coverage

Multi-way 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-103-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-103-LA	Lt. Almond		
<input type="checkbox"/> DW-103-I	Ivory		
<input type="checkbox"/> DW-103-G	Grey		
<input type="checkbox"/> DW-103-B	Black		

Order wall plate separately.