DUAL TECHNOLOGY WALL SWITCH VACANCY SENSOR

DSW-301M

High sensitivity and dense coverage for exceptional performance

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

Color-matched lens and low profile for appealing design

120/240/277 VAC

Operates in Manual-On only to meet code requirements

DESCRIPTION

The DSW-301M dual technology wall switch vacancy sensor combines the benefits of passive infrared (PIR) and ultrasonic detection technologies. The DSW-301M does not have Auto-ON capabilities and operates in Manual-ON mode only. All other specifications and settings are identical to the DSW-301.

OPERATION

Once the lights are ON, detection by either technology holds lights ON until occupancy is no longer detected and the time delay elapses. The DSW-301M turns On from manual operation only. Test mode to allow for quick and easy adjustments is available via the DIP switch settings. Additional DIP switch settings allow the user to choose which sensing technologies hold ON. Multiple sensors may be used for control of one or more loads from up to four locations.

COMPATIBLE WITH 2 WIRE OR 3 WIRE CONNECTIONS

The DSW-301M sensor can be used for a two-wire or three wire application, either to work with existing wiring, or to meet local or national code requirements. It uses a blue and white signal wire to connect to neutral or, in cases of retrofit or replacement when no neutral is present, can be connected to ground.

APPLICATIONS

The DSW-301M is designed to meet regulations that require sensors to operate in Manual-On mode only, eliminating the ability for the sensor to be placed in auto-on mode. It is great for retrofit projects and Wattstopper's dual technology has the flexibility to work in a variety of applications where one technology alone may not be sufficient. Common applications include small and executive offices, small and medium conference rooms, small classrooms and lunch/break rooms. In addition, dual technology sensors are the perfect choice for ADA-compliant buildings due to lower mounting height requirements.

FEATURES

- Operates in Manual-On only to meet code requirements
- Zero-crossing for long relay life
- Vandal resistant lens combines precise coverage with durability
- Test mode allows quick and easy adjustments
- Selectable audible alert for impending shutoff
- Three occupancy logic options to customize control to meet application needs
- 30 second re-trigger if occupancy is detected
- 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

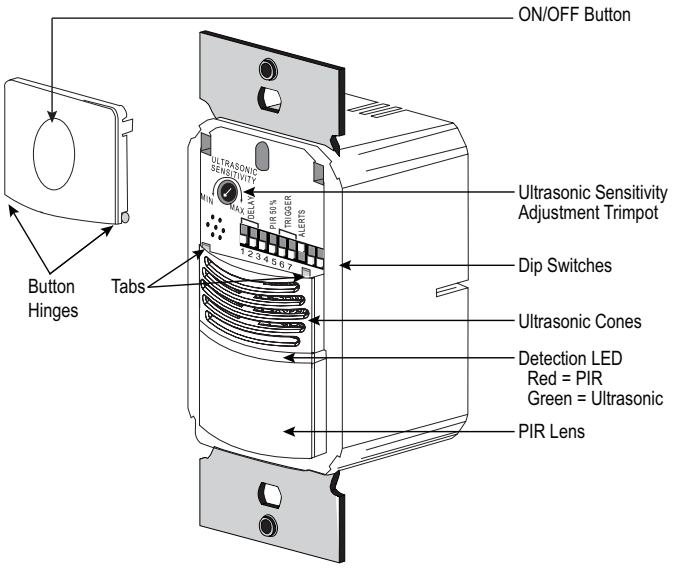
PROJECT		LOCATION/ TYPE	

SPECIFICATIONS

- 120/240/277VAC; 50/60Hz, 1/4 hp
  - @ 120VAC, 0-1000W ballast, LED, and tungsten
  - @ 240/277VAC, 0-1200W ballast and LED
- Time delays: 5, 15 or 30 minutes, test-mode/20 minutes
- Sensitivity adjustment: PIR (high/low), Ultrasonic (fully variable)
- Coverage: Major motion, PIR 35′ x 30′, Ultrasonic 20′ x 20′ Minor motion, PIR 20′ x 15′, Ultrasonic 15′ x 15′
- Dimensions (L x W x D): 2.73″ x 1.75″ x 1.81″ (69mm x 44mm x 46mm)
- UL and cUL listed
- Five year warranty

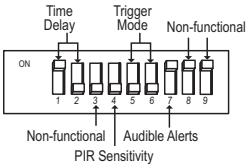
CONTROLS & SETTINGS

Product Controls



DIP Switch Settings

Time Delay	1	2
Test/20 min	↓	↓
5 minutes	↓	↑
15 minutes	↑	↓ ◀
30 minutes	↑	↑



Audible Alert	7
Enabled	↑ ◀
Disabled	↓

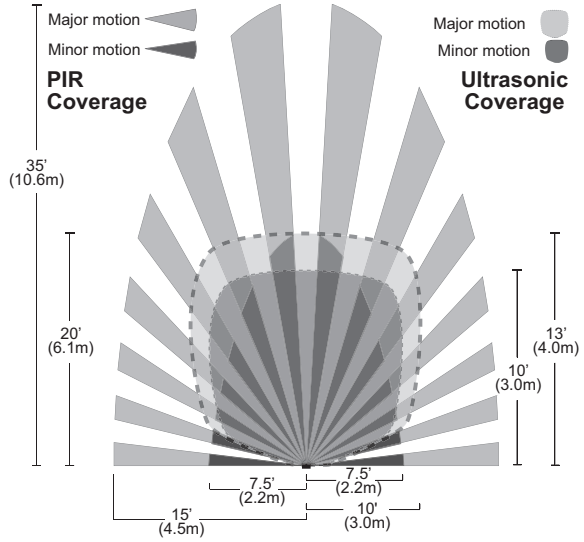
PIR Sensitivity	4
Low, 50%	↑
High	↓ ◀

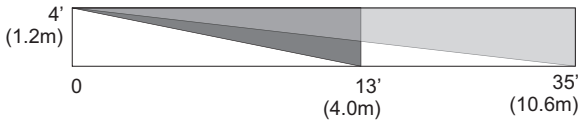
↑=ON ↓=OFF

Factory Settings: ◀

Trigger Mode	Maintain Occupancy	Re-trigger (seconds duration)	5	6
Standard	Either	Either(5)	↓	↓ ◀
Option B	PIR	PIR (5)	↓	↑
Option C	Both	Both (5)	↑	↓

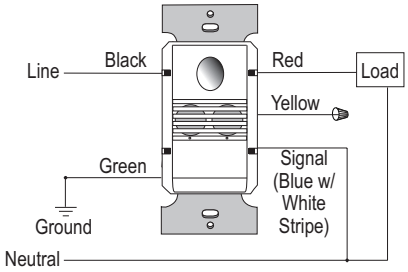
COVERAGE



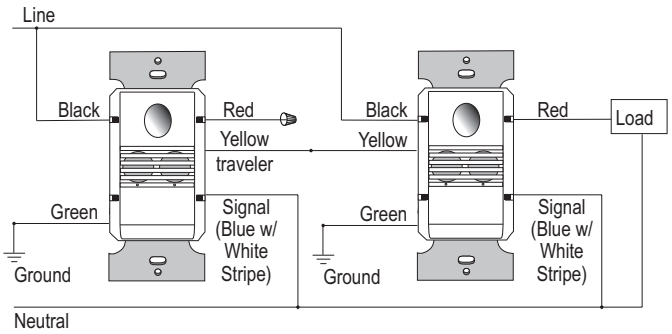


For best performance, Wattstopper recommends using this sensor in spaces no larger than 18′ x 15′.

WIRING



Signal wire connects to neutral. Signal wire can connect to ground in replacement or retrofit application



Multi-way Wiring (up to 4 sensors)

ORDERING INFORMATION

Catalog #		Color	Voltage	Load Rating
☐	DSW-301M-W	White	120VAC; 50/60Hz or 240/277VAC; 50/60Hz	@ 120VAC, 0-1000W ballast, LED, tungsten, 1/4 hp or @ 240/277VAC 0-1200W ballast, LED, 1/4 hp

Order wall plate separately.

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