



PROJECT	TYPE	CATALOG #



MODEL	DESCRIPTION
25-MWOS	Occupancy/Vacancy Sensor Wall Switch, Multi-Technology - PIR & Ultrasonic, Single Pole, Decorator, 120V or 277V, 800W Max, White

Features

- Combines passive infrared, ultrasonic technologies, and lux sensing
- Adjustable time delay 15 seconds to 30 minutes
- Manual or Automatic On/Off button, always automatic off
- "Walk-through" sensing mode increases energy savings by turning lights "OFF" shortly after momentary occupancy

Description

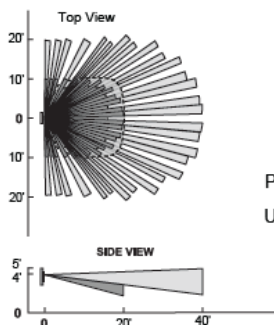
- The Multi-Technology Wall Switch Sensor combine advanced passive infrared (PIR) and ultrasonic technologies into one unit. The combined technologies help to avoid false triggering. Selectable operating modes allow the sensor to turn a load on, and hold it on as long as either or both technologies detect occupancy. After no movement is detected for the selected time delay, the lights switch off. A "walk-through" mode can turn lights off after only 3 minutes, if no activity is detected after 30 seconds following an occupancy detection. This sensor also contains a light level sensor. If adequate daylight is present, the sensor holds the load OFF until light levels drop, even if the area is occupied.

Specifications

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- Voltage: 120/277VAC, 50/60Hz
- Resistive: 800W
- Tungsten: 800W
- Electronic Ballast: 600VA-120VAC, 1385VA-277VAC, 50/60Hz
- Motor: 1/4HP
- Adjustment Time Delay: 15Sec to 30Mins
- Walk-Through Mode: 3 minutes if no activity after 30 sec
- Test Mode: 15 sec at initial power up or DIP switch reset
- PIR Adjustment: High or Low (DIP switch)
- Ultrasonic Adjustment: Minimum to Maximum (trimpot)
- Light Level Adjustment: 100 Lux - daylight (trimpot)
- Operation Temperature: 32°F - 131°F (0°C - 55°C)

Coverage Pattern



PIR Coverage: 1200 ft²
Ultrasonic Coverage: 400 ft²

Operation

The Sensor Switch is programmed independently for either Occupancy Mode or Vacancy Mode as refer to the Band Switch position under the control panel cover. Some might call the Vacancy mode as "Manual On Occupancy Mode"

Manual On/Off Button

- By Pushing the Control Panel Cover, the Load can be turned On/Off under either OCC or VAC mode

Turning On the Load under Occupancy Mode

- Load to be Automatic On once occupancy detected

Turning On the Load under Vacancy Mode

- Manual On/Off button has to be pushed to turn on the load

Automatic Turning Off the Load

- Under either mode, the sensor keeps the load On until no motion is detected plus the set time delay, load(s) to be Off automatically. Under VAC mode, the load can turn On automatically if motion is detected within the first 3 minutes

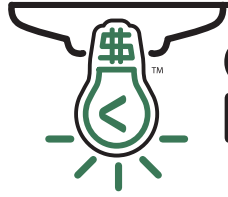
Manual Turning Off the Load

- By Manual On/Off button, the load can be turned off under either OCC or VAC mode. Under OCC Mode, if you press manual On/Off button first, when set-time is more than 3 minutes, the sensor switch returns to normal after 3 minutes. However, when set-time is less than 3 minutes, the sensor switch returns to normal until set-time finished.

NOTE: Only when there is no motion detected during the set-time period, the sensor switch returns to normal

Warranty

Product to be free of defects in materials and workmanship for a period of 2 years. There are no obligations or liabilities for consequential damages arising out of, or in connection with, the use or performance of this product or other indirect damages with respect to loss of property, revenue or profit, or cost of removal, installation or reinstallation.



Adjustment

Band Switch Prescription

Mode	Position	Description	React to the push-button
OFF	Left	Circuit is permanently opened. (switched off)	None
OCC	Center	Occupancy Mode: Automatic on, automatic off after set time delay	Manually toggles on/off the load
VAC	Right	Vacancy Mode: Manual On only, automatic off after set time delay	Manually toggles on/off the load

Ultrasonic Sensitivity Adjustment Trimpot

Default position: Center at 65%

Adjustable: 30% (Position 1) to 100% (Position 4)

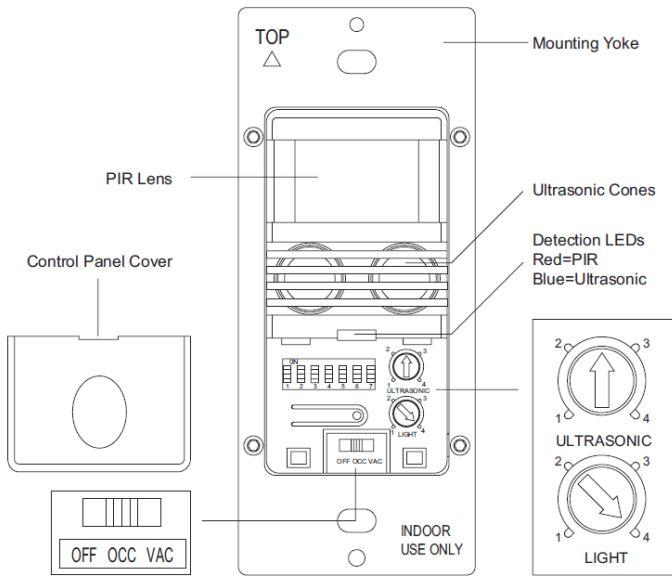
NOTE: Turn toward right for greater room space

Turn toward left to avoid false alert in smaller room and near the door way or heat source

Ambient Light Level Adjustment Trimpot

Default position: Daylight (100% at position 4)

Adjustable: Daylight to 100Lux (Counter clockwise)



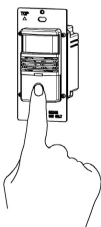
DIP Switch Setting

The 25-MWOS has 7 DIP switches under the cover. They are used to set sensitivity, time delay, trigger mode, walk through mode feature settings.

Trigger Mode	Initial Trigger	Maintain Load Output	Re-trigger	2	3
Option 1	Both	Either	Either	↓	↓
Option 2	PIR	PIR	PIR	↓	↑
Option 3	US	US	US	↑	↓
Option 4	Both	Both	Both	↑	↑

PIR Sensitivity	1	Time Delay	4	5	6
50%	↓	15 Sec/Test	↓	↓	↓
100%	↑	1 Minute	↓	↓	↑
Walk Through	7	5 Minutes	↓	↑	↓
Disabled	↓	10 Minutes	↓	↑	↑
Enabled	↑	15 Minutes	↑	↓	↓
		20 Minutes	↑	↓	↑
		25 Minutes	↑	↑	↓
		30 Minutes	↑	↑	↑

↓ = OFF ↑ = ON
◀ = Factory Setting



PIR Sensitivity setting: Switch 1

50%, sensor's coverage is smaller, just about half of the widest range

100%, the maximum range of sensor's PIR coverage is 1200 square feet, see "coverage pattern"

Trigger Mode: Switches 2, 3

The sensor has 4 trigger options, set with DIP switches 2 and 3. In the trigger mode DIP switch setting table:

- Both requires motion detection by the PIR and the Ultrasonic
- Either requires motion detection by only one technology
- PIR requires motion detection by the PIR
- US requires motion detection by the Ultrasonic

Time Delay: Switches 4, 5, 6

The sensor will hold the lights on as long as occupancy is detected. The time delay countdown starts when no motion is detected. After no motion is detected for the length of the time delay, the sensor will turn the lights off.

Walk-through mode: Switch 7

Turns the lights off three minutes after the area is initially occupied, if no motion is detected after the first 30 seconds. If motion continues beyond the first 30 seconds, the selected time delay applies.