



SENSORS

ENERLITES offers a wide variety of Occupancy and Vacancy sensor models that can monitor virtually any area within a building. We cover the spectrum of technologies with our passive infrared, basic single relay units. All units are designed to be mounted in a standard single gang switch box, fit into a decorator style wall plate and be used in residential or commercial applications.

SENSORS

Occupancy Sensors	A4-A7
Vacancy Sensors	A8



A-1



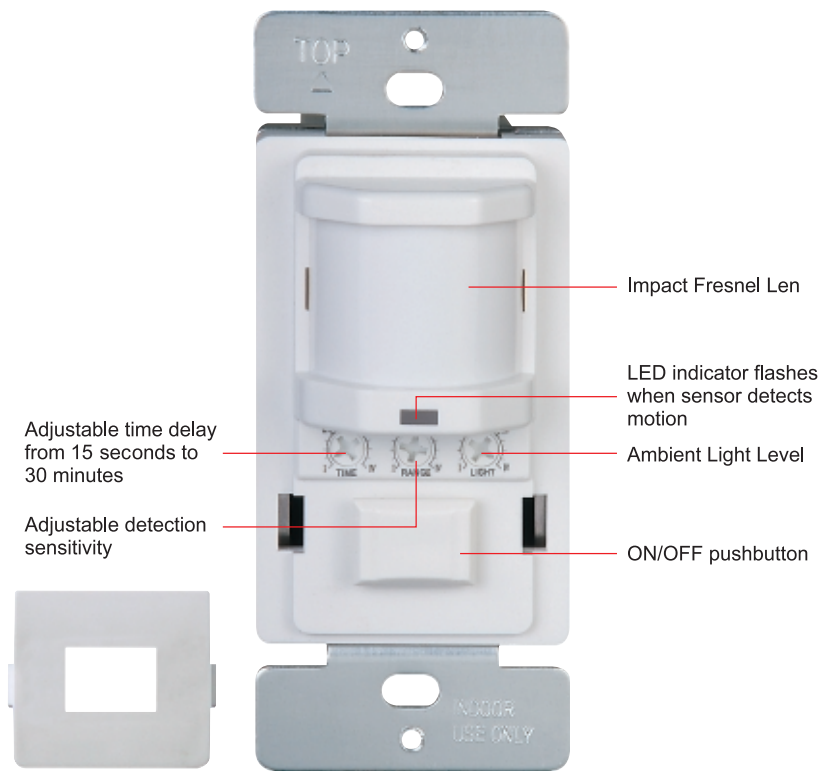
Occupancy and Vacancy Sensors

Lighting controls have traditionally been used to control the intensity of lighting within a space and allow the atmosphere of the room to be adjusted to the user's desires. Through the use of occupancy sensors, lighting controls are now used as a component of a high quality energy efficient lighting system designed to maximize operation and significantly reduce energy consumption. Over the last decade, occupancy sensors have been designed into control systems that address a wide variety of areas in residential, commercial and industrial buildings. These applications consist of individual enclosed offices, large open work spaces, conference rooms, hallways, storage closets and more. Overall, occupancy sensors have been proven to reduce lighting related energy consumption up to 45 percent depending on application.

Currently, modern building designs are now integrating electric light sources with natural light that penetrates the space through strategically placed windows. This has enabled the building owner to incorporate photo controls to automatically adjust the electric lighting to a lower level and take advantage of the natural light entering the space. The overall goal is to provide a comfortable and well illuminated space for the user while reducing energy consumption and saving electricity.

Although occupancy sensors are most commonly used in commercial buildings, they are now being applied to residential homes in the form of a vacancy sensor. These types of sensors retain the manual "on" function, but automatically turn the connected lighting off when the room becomes vacant. Residential applications that benefit from this type of control are generally bedrooms, bathrooms, laundry rooms, closets and garages where lighting is often left on by the user.

In summary, installing occupancy/vacancy sensors in residential, commercial and industrial buildings can reduce lighting energy consumption significantly. The installation of these types of lighting controls has been proven over time to decrease electric consumption, increase energy efficiency and ultimately reduce fossil fuel emissions.





The table below provides control ideas for several different room types and usage patterns.

Space Type	Use Pattern	If...	Then...
Cafeterias or Lunchrooms	Occupied occasionally	Occupied occasionally	Consider ceiling-mounted occupancy sensor(s). Make sure minor motion will be detected in all desired locations.
Classroom	Usually occupied	Occupied by different students and teachers	Consider ceiling or wall-mounted occupancy sensor(s) and manual dimming. Make sure that minor motion will be detected.
		Lights left on after hours	Consider centralized controls and/or occupancy sensors.
Computer Room	Usually unoccupied	Lights are left on all the time	Consider occupancy sensors with manual dimming. Be sure that minor motion will be detected and that equipment vibration will not falsely trigger the sensor.
Conference Room	Occupied occasionally	Small conference room	Consider a wall box occupancy sensor
		Large conference room	Consider ceiling or wall-mounted occupancy sensor(s). Be sure that minor motion will be detected in all desired locations.
Hallways	Any	Occasionally or usually occupied	Consider occupancy sensors with elongated throw. Be sure that coverage does not extend beyond the desired area.
Health Care-Examination Rooms	Occasionally occupied	Small areas	Consider a wall box occupancy sensor
Laboratories	Usually occupied	Daylighted...	Consider automatic daylight driven dimming in combination with occupancy sensors.
Laundry Rooms	Occasionally occupied	Requires high light levels, yet lights are usually left on	Consider occupancy sensors
Libraries-Stack Areas	Occasionally occupied	Stacks are usually unoccupied	Consider ceiling-mounted sensor(s)
Lobby or Atrium	Usually occupied but no one "owns" the space	Lights are left on all night long, even when no one is in the area for long periods	Consider occupancy sensors. Be sure that minor motion will be detected in all desired areas.
Office, Open	Usually occupied	Lights left on after hours	Consider centralized controls and/or occupancy sensors.
Office, Private	Primarily one person, coming and going	Daylighted...	Consider manual dimming, automatic daylight-driven dimming, or automatic on/off
		Occupants are likely to leave lights on and occupants would be in direct view of a wall box sensor	Consider a wall box occupancy sensor
		Occupants are likely to leave lights on and partitions or objects could hide an occupant from the sensor	Consider a ceiling-or wall-mounted occupancy sensor
Restroom	Any	Has stalls	Consider a ceiling-mounted ultrasonic occupancy sensor for full coverage.
Laboratories	Usually occupied	Single toilet (no partitions)	Consider a wall switch occupancy sensor
Warehouse	Aisles are usually unoccupied	Lights in an aisle can be turned off when the aisle is unoccupied	Consider ceiling mounted occupancy sensors with elongated throw. Select a sensor that will not detect motion in neighboring aisles, even when shelves are lightly loaded



Passive Infrared Wall Switch Occupancy Sensors

Features:

- Turn Lights On/Off Automatically
- Manual On/Off setting allows use as a regular switch
- Time delay Off setting is adjustable from 15 seconds to 30 minutes
- Adjustable sensitivity settings
- Two Year Warranty

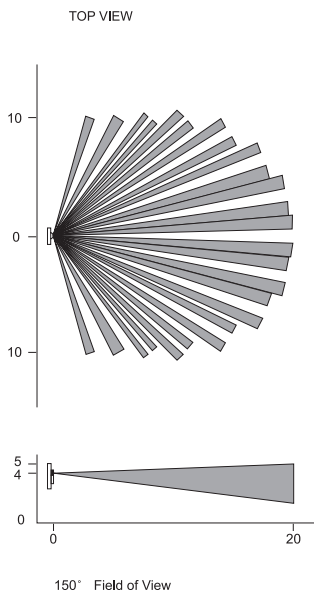
- Standard decorator wall plate included
- WOS15-K does not suit for use with electronic ballast

Testing & code compliance

- UL/CUL Listed device
- ISO9001 Registered manufacturing facility

DESCRIPTION	CAT. NO.	RATING	COVERAGE	COLOR
Single Pole, Wall Switch PIR Occupancy Sensor	WOS15	Incandescent: 500W @ 120VAC Fluorescent: 500VA @ 120VAC Motor: 1/8HP @ 120VAC	150°, 450sq.ft	Ivory, White
Single Pole, Wall Switch PIR Occupancy Sensor	WOS15-K	Incandescent: 500W @ 120VAC Magnetic Fluorescent Only: 500VA @ 120VAC Motor: 1/8HP @ 120VAC	150°, 450sq.ft	Ivory, White

Coverage Pattern:



Typical Applications:

- Laundry Rooms
- Closets
- Garages
- Kitchens
- Home Offices



Passive Infrared Wall Switch Occupancy Sensors

Features:

- Turn lights On/Off Automatically
- Manual On/Automatic or Manual Off function
- Time delay Off setting is adjustable from 15 seconds to 30 minutes
- Adjustable sensitivity settings
- Two Year Warranty
- Standard decorator wall plate included
- WOSS15-K does not suit for use with electronic ballast

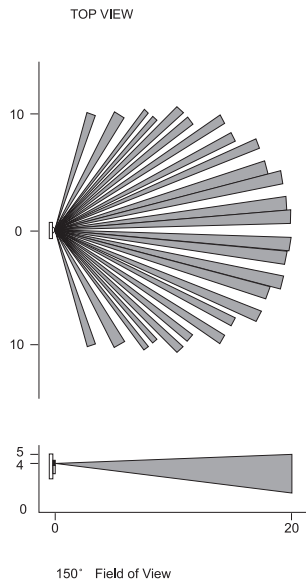
Testing & code compliance

- UL/CUL Listed device
- ISO9001 Registered manufacturing facility



DESCRIPTION	CAT. NO.	RATING	COVERAGE	COLOR
Single Pole, Wall Switch PIR Occupancy Sensor	WOSS15	Incandescent: 500W @ 120VAC Fluorescent: 500VA @ 120VAC Motor: 1/8HP @ 120VAC	150°, 450sq.ft	Ivory, White
Single Pole, Wall Switch PIR Occupancy Sensor	WOSS15-K	Incandescent: 500W @ 120VAC Magnetic Fluorescent Only: 500VA @ 120VAC Motor: 1/8HP @ 120VAC	150°, 450sq.ft	Ivory, White

Coverage Pattern:



Typical Applications:

- Laundry Rooms
- Closets
- Garages
- Kitchens
- Home Offices



Conforms to California Title 24 Requirements



Decorator Passive Infrared Wall Switch Occupancy Sensors

Features:

- Turn lights On/Off Automatically
- Provides built-in On/Off pushbutton
- Time delay Off setting is adjustable from 15 seconds to 30 minutes
- Single Pole feed & Single output
- Zero crossing function
- Adjustable sensitivity settings
- Five Year Warranty

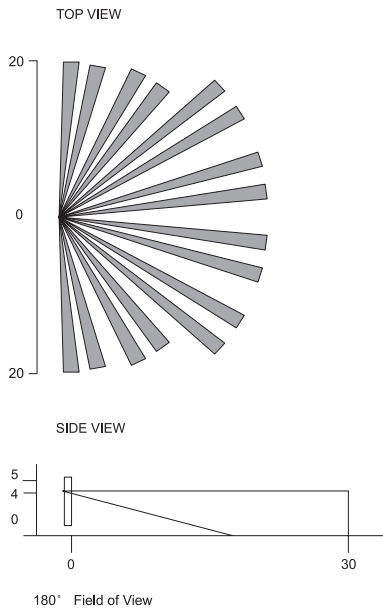
- Standard decorator wall plate included

Testing & code compliance

- UL/CUL Listed device
- ISO9001 Registered manufacturing facility

DESCRIPTION	CAT. NO.	RATING	COVERAGE	COLOR
Single Pole, Decorator Wall Switch PIR Occupancy Sensor	DWOS	Incandescent: 800W @ 120VAC Fluorescent: 800VA @ 120VAC 1600VA @ 277VAC Motor: 1/4HP @ 120VAC	180°, 650sq.ft	White

Coverage Pattern:



Typical Applications:

- Offices
- Copy Rooms
- Storage Closets
- Small Conference Rooms
- Small Restrooms
- Maintenance Closets
- Break Rooms



Conforms to California Title 24 Requirements



Commercial Decorator Passive Infrared Wall Switch Occupancy Sensors

Features:

- Turn lights On/Off Automatically
- Built-in OCC/VAC slide button offers manual on or auto on models
- Time delay Off setting is adjustable from 15 seconds to 30 minutes
- "Walk-through" sensing mode increases energy savings by turning light "Off" shortly after momentary occupancy
- Self Adaptive feature automatically adjusts time delay based on occupants behavior patterns
- No neutral required
- Low power

- Single Pole feed & Single output
- Zero crossing function
- Adjustable sensitivity settings
- Five Year Warranty
- Standard decorator wall plate included
- Compatible with all electronic ballast

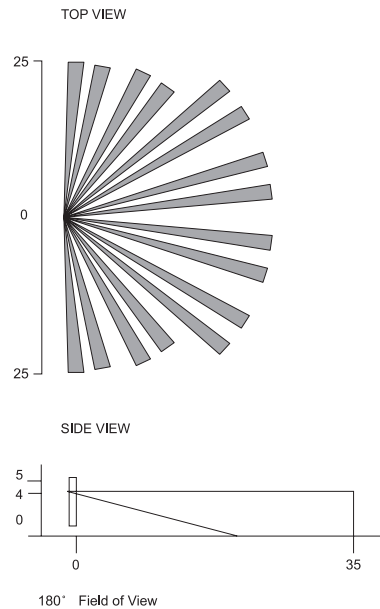
Testing & code compliance

- UL/CUL Listed device
- ISO9001 Registered manufacturing facility



DESCRIPTION	CAT. NO.	RATING	COVERAGE	COLOR
Single Pole, Decorator Wall Switch PIR Occupancy Sensor	DWOS-J	NEW	Incandescent: 800W @ 120VAC Fluorescent: 800VA @ 120VAC 1600VA @ 277VAC Motor: 1/4HP @ 120VAC	180°, 1200sq.ft White

Coverage Pattern:



Typical Applications:

- Offices
- Copy Rooms
- Storage Closets
- Small Conference Rooms
- Small Restrooms
- Maintenance Closets
- Break Rooms



Conforms to California Title 24 Requirements



Passive Infrared Wall Switch Vacancy Sensors

Features:

- Passive Infrared technology
- Manual "On" only
- Automatic off after time delay expires with manual "Off" option
- Adjustable time delay from 15 seconds to 30 minutes.
- Adjustable sensitivity settings
- Five year warranty
- Standard decorator wall plate included

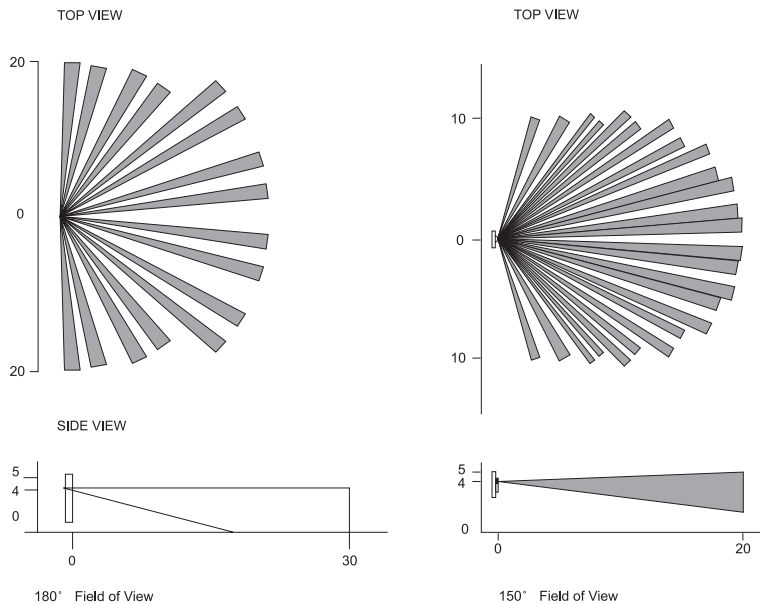
- Compatible with all electronic ballast

Testing & code compliance

- UL/CUL Listed device
- ISO9001 Registered manufacturing facility

DESCRIPTION	CAT. NO.	RATING	COVERAGE	Color
Single Pole, Wall Switch PIR Vacancy Sensor	DWVS	Incandescent: 800W @ 120VAC Fluorescent: 800VA @ 120VAC 1600VA @ 277VAC Motor: 1/4HP @ 120VAC	180°, 650sq.ft	White
Single Pole, Wall Switch PIR Vacancy Sensor	WVSS15	Incandescent: 500W @ 120VAC Fluorescent: 500VA @ 120VAC Motor: 1/8HP @ 120VAC	150°, 450sq.ft	Ivory, White

Coverage Pattern:



Typical Applications:

- Offices
- Copy Rooms
- Storage Closets
- Small Conference Rooms
- Small Restrooms
- Maintenance Closets
- Break Rooms



Conforms to California Title 24 Requirements

