

TYPICAL APPLICATIONS

- Classrooms
- High Loads, up to 13 Amps
- Two Circuit Control (13 Amps each)
- Retrofit High Mounted Switches
- Large Storage or Open Areas

FEATURES

- PIR Occupancy Detection
- Single and 2-Pole Versions
- Relay Protection on Each Relay
- No Minimum Load
- Optional Photocell/Daylight Override
- Time Delay: 30 sec to 20 min
- Three-Way and Multi-Level Switching
- Green LED Activity Indicator

SPECIFICATIONS

- Size: 4.96" H x 3.10" W x 1.70" D (12.60 cm x 7.87 cm x 4.32 cm)
- Weight: 7 oz
- Color: Ivory or White
- Mounting Height:
 - LWS Series: 30 to 48 in
 - LWSH Series: 48 to 84 in
- Manual Override Slide Switch:
 - UP = Auto Mode
 - DOWN = Off Mode
- Mounting: Single Gang Switch Box
- Relative Humidity: 20 to 90% non-condensing
- Operating Temp: 14° to 85°F (-10 to 29°C)
- Storage Temp: -14° to 160°F (-26 to 71°C)
- 120/277, 347 VAC Operating Voltage
- 13 Amps each Pole (347 VAC must be same phase)
- 1/4 HP Motor Load each pole
- Frequency: 50/60 Hz
- UL and CUL Listed
- 5-Year Warranty
- Made in USA

LOW TEMP/HIGH HUMIDITY (-LT)

- Conformally coated Circuit Board is corrosion resistant from moisture
- Operates down to -40° F/C

LWS Series

3 to 4 feet Mounting

LWSH Series

4 to 7 feet Mounting



The LWS(H) Series Large Area Wall Switch sensor uses Passive Infrared for detecting small motions up to 40 feet away. Large motions may be detected up to 70 feet away. The LWS version is designed for standard switch height mounting of 3 to 4 feet and has a single level view pattern that extends wall to wall. The LWSH version is designed for switches mounted at 4 to 7 feet and has a 3 level view pattern that spans 120 degrees wide.

Large Area Wall Switch sensors are ideal products to use when retrofitting classrooms, main storage centers, or open spaces where low voltage systems are cost prohibitive. These sensors are available in a 1 or 2-pole version, with or without a Photocell, and in two colors (Ivory and White). The LWS(H) sensor surface mounts making it ideal for retrofits in older facilities, and can control up to 13 Amps each pole.

SENSOR OPERATIONS

The sensor detects changes in the infrared energy given off by occupants as they move within the field-of-view. When occupancy is detected, a self-contained relay switches the lighting on. The sensor is line powered and can switch a large range of line voltages. An internal timer, factory set at 10 minutes, keeps the lights on during brief periods of no activity. This timer is selectable from 30 seconds to 20 minutes, and is reset every time occupancy is re-detected. This state-of-the-art design requires no manual field adjustments.

DAYLIGHTING CONTROL OPTION (LWS-P, LWSH-P)

When the Inhibit Photocell is used (-P option), sufficient daylight will keep the lights from turning on upon initial occupancy. However, if the room darkens and the lights turn on, the lights will *only* go out upon vacancy. If the unit is a 2-Pole, the photocell overrides the 2nd pole only, providing automatic dual level lighting control.

TIME DELAY ADJUSTMENT

Pull up the top of the LWS(H) to expose the time delay adjustment potentiometer. Use the provided tool to set the time between 30 seconds (fully counterclockwise) and 20 minutes (fully clockwise).

PHOTOCELL ADJUSTMENT

Rotating the adjustment clockwise requires less light to activate the photocell override. Rotating the adjustment fully clockwise will put the sensor in permanent photocell override no matter how dark.

Steps to adjustment:

1. For single Pole units, manually override the sensor to off. For 2-Pole Units, set the 1st pole on and the second pole off.
2. Set the light level in the space (adjust curtains) where the ambient is sufficient with the sensor overridden off.
3. Turn the photocell adjustment fully clockwise, and the Time Delay counterclockwise to minimum. Switch the manual override(s) to Auto and leave the space, allowing the lights to cycle off. Re-enter the space: For single Pole units, the lights will remain off; For 2-Pole units the 1st Pole will come on, and the 2nd Pole will stay off.
3. On 2-Pole units, manually turn off the 1st pole.
4. Rotate the photocell adjustment counterclockwise slowly until the lights come on. Make sure the sensor is not being shadowed during this process.

Hint: If occupant wants the lights on when the photocell is overriding the unit, shadow the lens until lights come on.

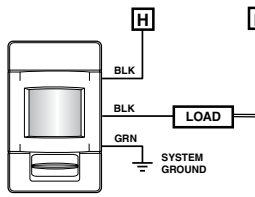


Model Numbering System: [SERIES]-[# OF POLES]-[PHOTOCELL]-[VOLTAGE]-[COLOR*]-[TEMP/HUMIDITY]

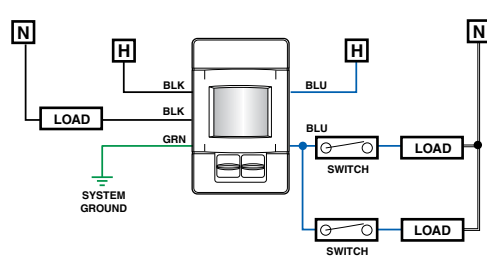
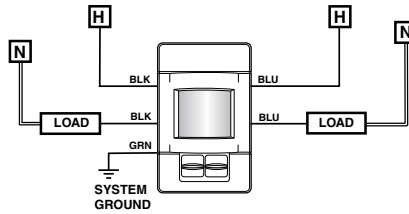
SERIES	# OF POLES	PHOTOCELL	VOLTAGE	COLOR	TEMP/HUMIDITY
LWS	Blank = 1 Pole	Blank = No Photocell	Blank = 120/277 VAC	-I = Ivory	Blank = 14° to 85° F
LWSH	-2P = 2 Pole	-P = w/ Photocell	-3 = 347 VAC	-W = White	-LT = -40° F to 85°

TYPICAL WIRING DIAGRAMS (DO NOT WIRE HOT)

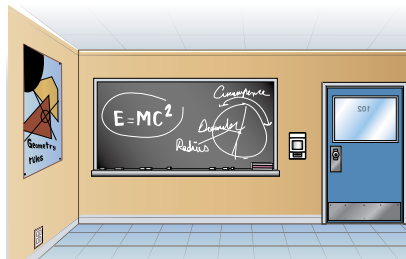
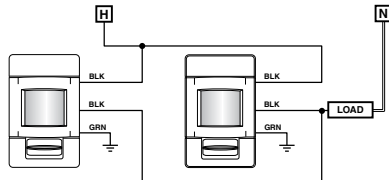
1 Pole



2 Pole



3-Way



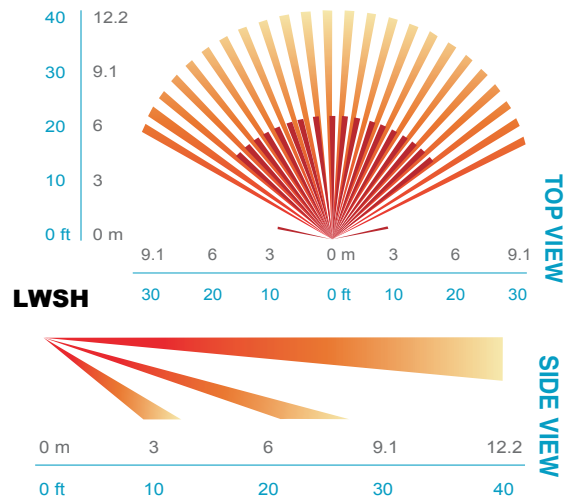
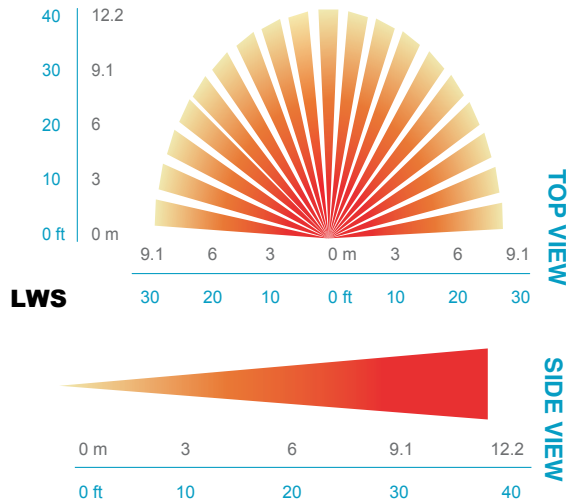
LWS SWITCH HEIGHT



LWSH SWITCH HEIGHT

COVERAGE PATTERN

- Small motion (e.g. hand movements) detection up to 40 ft (12.19 m)
- LWS: 30 to 48 in (76.20 to 121.92 cm) high mounting
- LWSH: 48 to 84 in (21.92 cm to 213.36 cm) high mounting



OPTIONAL WALL PLATES - The WS-BPX plate comes with the 2-pole models. Other plates can be ordered separately.



WS-SPX-I/-W



WS-SPX3-I/-W



WS-BPX-I/-W



WS-BPX3-I/-W

WARRANTY: Sensor Switch, Inc. warrants these products to be free of defects in manufacture and workmanship for a period of sixty months. Sensor Switch, Inc., upon prompt notice of such defect will, at its option, provide a Returned Material Authorization number and repair or replace returned product.
LIMITATIONS AND EXCLUSIONS: This Warranty is in full lieu of all other representation and expressed and implied warranties (including the implied warranties of merchantability and fitness for use) and under no circumstances shall Sensor Switch, Inc. be liable for any incidental or consequential property damages or losses.