ENERLITES®

INSTALLATION INSTRUCTIONS

WOS15 /WOSS15
OCCUPANCY SENSOR SWITCH
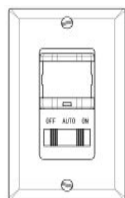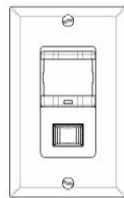
WOS15   WOSS15

◆ SPECIFICATIONS

Voltage ....……… 120VAC,60Hz

Fluorescent.............................…................................…500VA
Motor ....…1/8Hp
Incandescent 500W
Time Delay ....… 15Sec to 30Mins
Light Level... 30 Lux--Daylight
Operation Temperature....................................... 32°F--131°F

◆ DESCRIPTION

The passive infrared sensors work by detecting the difference between heat emitted from the human body in motion and the background space. The sensor switch can turn a load on and hold it as long as the sensor detects occupancy. After no motion is detected for the set time delay, the load turned off automatically.The sensor switch has one relay (equal to single pole switch), also includes Ambient Light Level Sensor.

Coverage Area

The coverage range of the sensor switch is specified and illustrated in Figure 1. Large objects and some transparent barriers like glass windows will obstruct the sensors' view and prevent detection, causing the light to turn off eventhough someone is still in the detection area.
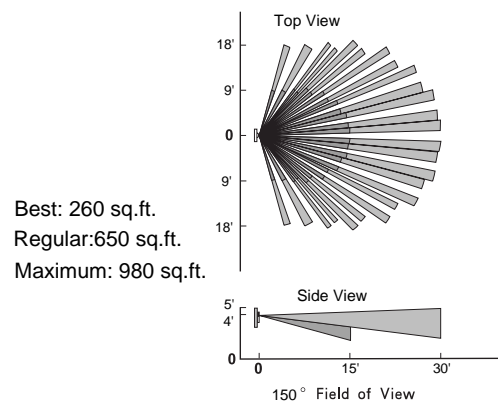
Top View

18'
9'
0
9'
18'

Best: 260 sq.ft.
Regular:650 sq.ft.
Maximum: 980 sq.ft.

Side View

5'
4'
0
0   15'   30'

150° Field of View

Figure 1

WARNING: Turn off the circuit breaker before installation.
Indoor use only.
Do not exceed electrical ratings.

◆ INSTALLATION:

1. Connect lead wires as WIRING DIAGRAM (see Figure 2): Black lead to Hot wire, Red lead to Load wire, White lead to Neutral wire, and Green lead to Ground wire.

Wiring Diagram:

Neutral
White
TOP
Hot
Black
Load
Red
LOAD
Neutral
White
OFF AUTO ON
Ground
Green
INDOOR USE ONLY
WOS15

Neutral
White
TOP
Hot
Black
Load
Red
LOAD
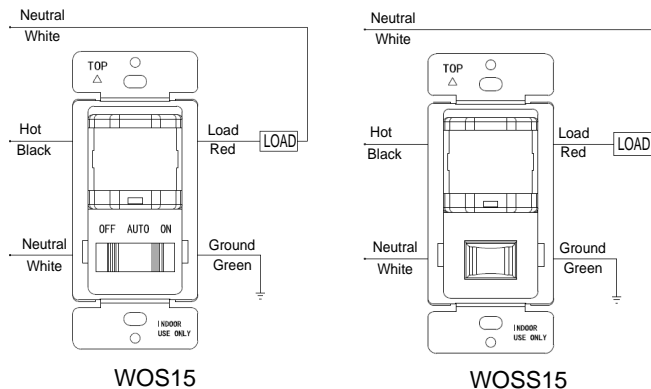Neutral
White
Ground
Green
INDOOR USE ONLY
WOSS15

Figure 2

NOTE: DO NOT connect RED & WHITE wires on device together! It may cause short circuit!

2. Gently position wires in wall box, attach sensor switch to the box.
3. Mount device "TOP"up.
4. Restore power at circuit breaker or fuse, wait *one* minute.
5. Remove the small cover plate. (Illustrated as Figure 3.)
6. Locate the adjustment knobs on the control panel to perform test and adjustment.(Illustrated as Figure 3.)
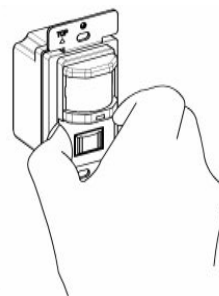7. Replace the small cover plate after testing and adjustment.
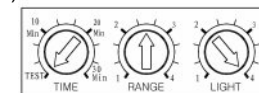8. Attach the wallplate.

Figure 3

◆ ADJUSTMENT

Time Delay knob
Default position: 15 Seconds (Test mode)
Adjustable: from 15 Seconds to 30 Minutes (clockwise)
Sensor Sensitivity Range Knob
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.

Figure 4

Ambient Light Level Knob
Default position: Daylight (100% at position 4)
Adjustable: Daylight to 30Lux (Counter clockwise)
Note: to avoid wasting energy by turn-on the light under daylight.

◆ OPERATION

Band switch prescription for WOS15

Mode	Position	Description
OFF	Left	Circuit is permanently opened. (switched off)
AUTO	Center	Occupancy Mode: Automatic On when occupancy is detected. Automatic Off after the set time delay.
ON	Right	Load stays On always. (switched on)

Push-button for WOSS15

As illustrated in Figure 5, the Load stays Off when the button is pushed in and locked. (switched Off)
As illustrated in Figure 6, the Load turns On after the button is pressed and released.The sensor switch stays at the OCC Mode until the button is pressed Off next time.
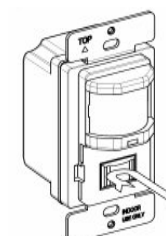
Press (Lock) OFF
Figure 5

Press and release AUTO
Figure 6

INSTALLATION INSTRUCTIONS

◆ TROUBLESHOOTING

For proper operation, the Sensor Switch has to consume power from hot and **Neutral**. Therefore, a **Secured Neutral Wiring is required**.

Initial run

The Sensor Switch needs **initial run within one minute.** During the initial run, the load might be turned On and Off several times.
The Time Delay knob is default set on 15 seconds, do not adjust it until initial run is finished and proper operation function confirmed.

The Load is out of control (frequently flashing)

1. It can take up to one minute for initial run.
2. Check the wiring connections, especially the **Neutral Wiring**.

The Load does not turn On without LED flashing or LED flashing regardless of motion

1. Verify the Mode is set to On(For WOS15); Push and release the button (for WOSS15). If the load doesn't turn On, go to step 3.
2. Verify the Sensitivity Range is on high.
3. Check the wiring connections.

The Load does not turn On while LED flashing with motion detected

1. Check to see if Ambient Light Level is enable by covering the lens by hand.
2. Verify the Mode is set to On(For WOS15); Push and release the button (For WOSS15). If the load doesn't turn On,go to step 3.
3. Verify the Sensitivity Range is on high.
4. Check the wiring connections.

The Load does not turn Off

1. Verify if the Mode is ON.(For WOS15)
2. There can be up to a 30 minutes time delay after the last motion detected. To verify proper operation, turn the Time Delay Knob to 15s (Test Mode), make sure there is no motion (no LED flashing), the Load should turn Off in 15 seconds.
3. Check if there is any significant heat source mounted within six feet (two meters) that may cause false detection such as high wattage light bulb, portable heater and HAVC device.
4. Check the wiring connections.

The Load turns On while no desired

1. Mask the Sensor Switch's lens to eliminate unwanted coverage area.
2. Turn the Sensitivity Level knob toward left to avoid false alert in smaller room and near the door way.

◆ WARRANTY INFORMATION

If within two (2) years from the date of purchase, this product fails due to a defect in material or workmanship, we will repair or exchange it, at its sole option free of charge. This warranty does not apply to: (a) damage to units caused by accident, dropping or abuse in handling, acts of God or any negligent use; (b) units which have been subject to un-authorized repair, opened, taken apart or otherwise modified; (c) unit not used in accordance with instruction; (d) damages exceeding the cost of the product; (e) finish on any portion of the product, such as surface and weathering, as this is considered normal wear and tear; (g) transit damage, initial installation costs, removal costs, or rein-installation costs.

This warranty service is available by returning the product with proof of purchase, purchase date and a description of the problem to the dealer from whom the unit was purchased.

Dec, 2014
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