

Avi-on Wall Station Sensor



Avi-on Wall Station with dual technology occupancy/vacancy sensor

Built for energy savings & code compliance, the Avi-on Wall Station Sensor includes automatic "OFF" functionality to help meet stringent building codes such as CA Title 24, ASHRAE, etc.

Sensor Operation

The Avi-on Wall Station Sensor provides automatic lighting control for a variety of indoor applications. It can replace any standard single-pole wall switch.

PIR detection is best suited for areas with (1) clear line of sight, and (2) good air circulation. Typical applications include classrooms, copy rooms, offices, conference rooms, and private restrooms.

Ultrasonic detection supplements PIR sensors in areas with (1) low air flow, (2) partitions and dividers or other irregular geometry, and (3) high levels of minor activity. Typical applications include public restrooms, private offices, classrooms, conference rooms, storage spaces, and break rooms.

Features

OCC: occupancy sensing mode. Sensor will turn lights on automatically when motion is detected and turn lights off automatically after the area is vacated.

VAC: vacancy sensing mode. Sensor will automatically turn lights off after the area is vacated, but requires the user to manually turn lights on.

OFF: manual off. Load will stay off until manually switched on.

ON: manual on. Load will stay on until manually switched off.

AUTO: auto set occupancy sensing mode. Same as OCC except the sensor automatically adjusts the time delay based on occupancy patterns.

OCCS: occupancy single relay. Primary load is in OCC mode. Secondary load is in VAC mode.

OCCD: occupancy dual relay. Both loads are in OCC mode.

VACD: vacancy dual relay. Both loads are in VAC mode.

Features (cont.)

Manual on/off: End users can override any of the sensor modes at any time by operating the manual on/off controls.

Walk-through Mode: This feature is available only when the sensor is set to AUTO*. After motion is initially detected, the sensor will turn lights on. If no motion is detected beyond 30 seconds (such as when a person walks through an area) it will turn lights off automatically after another 2.5 minutes (3 minutes total) have elapsed. If motion is detected for longer than 3 minutes then AUTO mode will apply.

Parts and Ordering

Controllers

Name	Description	Part Number
Avi-on Sensor Wall Station	Dual-tech Ultrasonic Wall Station sensor	AVI-SEN-DUWS

To order please contact Avi-on sales at
(877) AVION-US, (877) 284-6687 or
prosales@avi-on.com

for information on becoming an Avi-on partner and order details.

Specifications

Name	Avi-on Sensor Wall Station
Sensor Type	PIR/Ultrasonic, occupancy/vacancy
Input Voltage	120/277VAC, 50/60Hz
Max Load (Resistive)	800W
Max Load (Fluorescent)	800VA @ 120VAC / 1600VA @ 277VAC
Min Load	None
Max Load (Motor)	1/4 Hp motor
PIR Sensor Range	40 ft / 1200 ft2
Ultrasonic Sensor Range:	20 ft / 400 ft2
Time Delay	15 sec to 30 min

Part Number	AVI-SEN-DUWS-24
Photocell Sensitivity	30 Lux to daylight
Operating Temperature	0° to 55°C
Storage Temperature	-10° to 60°C
Relative Humidity	95% non-condensing
Mounting	Standard wall box
Color	White
Warranty	5 years
Certifications	UL/cUL listed E350121

Case Dimensions (Excluding Wires)

Name	Length (mm)	Width (mm)	Height (mm)
Avi-on Sensor Wall Station	61	61	49

Certifications

Type	ID
UL	E350121
cUL	E350121

Product Diagrams

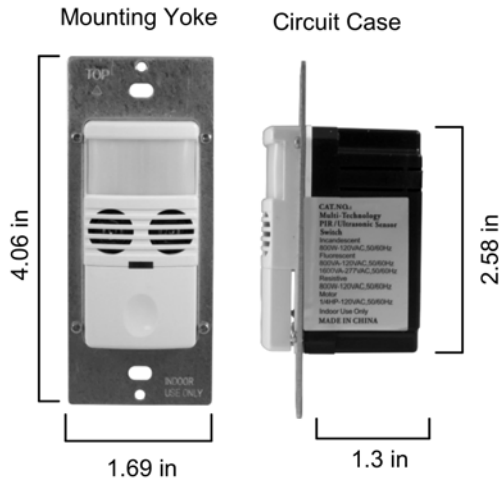


Figure 1. Dimensions

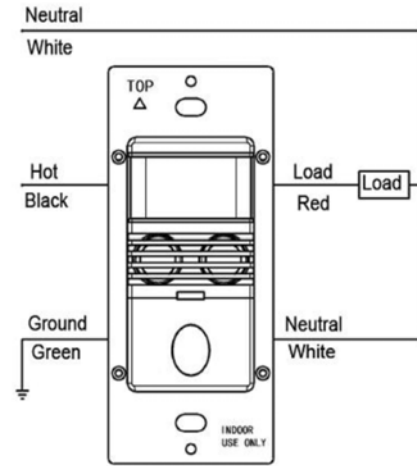


Figure 2. Wiring Diagram

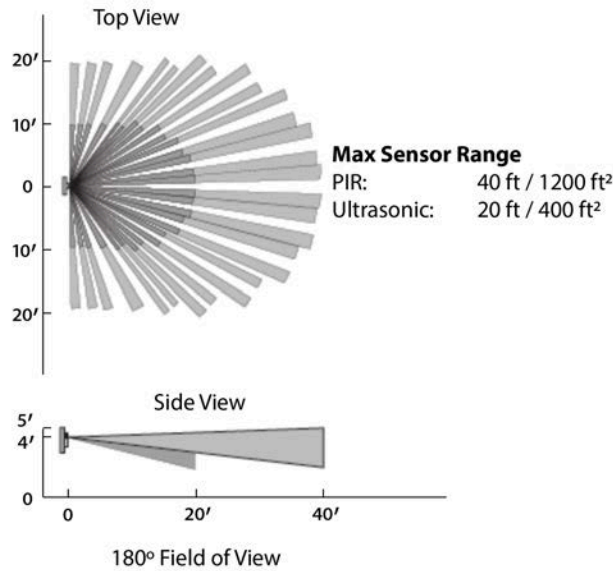


Figure 3. Detection Area

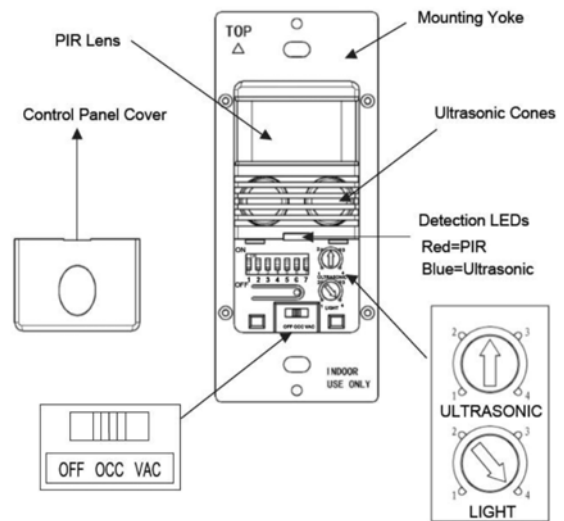


Figure 4. Setting Adjustments



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