

# Avi-on PIR Sensors

## AVI-KIT-SEN-IRW-24-BLE



## Avi-on Bi-level PIR Occupancy In Fixture Sensor for 8' to 40' Mounting Heights

Kit includes High Bay (AVI-KIT-SEN-IRW-24-BLE-HBL) or Low Bay Lens (AVI-KIT-SEN-IRW-24-BLE-LBL)

### Application Usage

Avi-on Bluetooth Sensors operate as a stand alone node within the Avi-on mesh platform. This allows for flexibility in install location. Use the Avi-on App (iOS or Android) for setup and subsequent sensor adjustments. The mobile application enables adjustment of sensor parameters such as time delay, dim level, sensitivity, ambient light level, and more.

## Sensor Features

The Avi-on PIR sensor uses digital PIR Motion Detection Architecture and Quad Element passive infrared (PIR) technology for accurate detection coverage.

The Avi-on PIR sensor is a Class 2 Device designed to comply with CA Title 24, IECC, IgCC and ASHRAE requirements.

### Warranty

Five-year limited warranty.  
 Complete warranty terms located at:  
<http://avi-on.com/warranty>

*Note: Actual performance may vary as a result of environment and application. Specifications subject to change without notice*

### Overview

- Digital PIR Detection
- Photocell for Day/Night Operation
- Time delay 1 adjustable 15 sec to 180 min
- Time delay 2 adjustable 15 sec to 90 min, ∞
- Restrictions based on Code Compliance
- LED Motion indicator
- Mounting height up to 40 ft (12.2 m)
- 360° coverage pattern
- App Configurable Motion Sensitivity
- App Adjustable delay and dim levels
- Add a AVI-SEN-IARH-24-BLE to include Daylight Harvesting

### Modes

- Mode Scheduling
- Occupancy Mode with Bi-level Dimming
- Vacancy Mode
- Photocell Mode with Sensitivity Control
- On at Last Dim Level
- Hold at Dimmed Level

## Parts and Ordering

### Controllers

Name	Description	Part Number
Avi-on PIR Sensor with Low Bay Lens	Fixture Mounting Heights from 8' to ~30'	<b>AVI-KIT-SEN-IRW-24-BLE-LBL</b>
Avi-on PIR Sensor with High Bay Lens	Fixture Mounting Heights from 24' to 40'	<b>AVI-KIT-SEN-IRW-24-BLE-HBL</b>

To order please contact Avi-on sales at  
**(877) AVION-US**, (877) 284-6687 or  
**[prosales@avi-on.com](mailto:prosales@avi-on.com)**  
 for information on becoming an Avi-on partner and order details.

### Specifications

Specification	Range
Sensor Type	Quad Element PIR
Time Delay 1	15 sec to 1 hr 30 min
Time Delay 2	15 sec to 1 hr 30 min, ∞
Max Detection Area	12m Mounting / 24m Diameter
Operating Temperature	-30° C to 70° C
Storage Temperature	-40° C to 80° C
Relative Humidity	90-95% Non-condensing
IP Rating	IP20

### Case Dimensions (Excluding Wires)

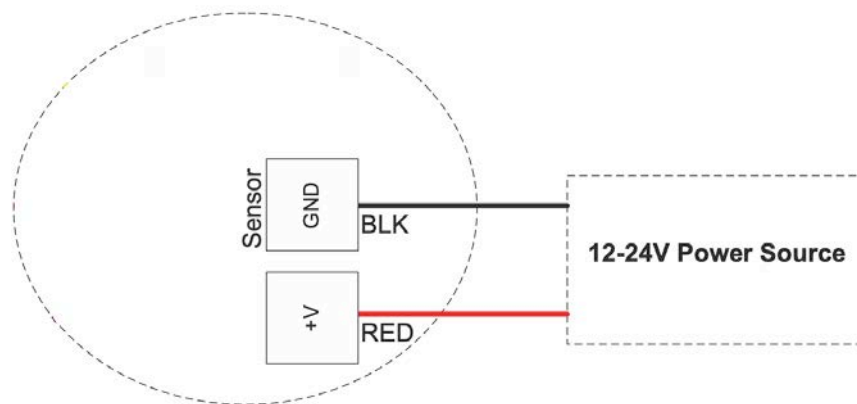
Part	Length (in)	Width (in)	Height (in)
Avi-on PIR Sensor without Lens	1.86	1.37	1.41
Highbay Lens		2.4	.83
Lowbay Lens		2.4	.83

### Certifications

Regulatory	Description
USA	FCC: ZZ0 WCM-01
UL	E341446

### Wiring / Power

Input Voltage	Max Current
12-24 VDC	50mA

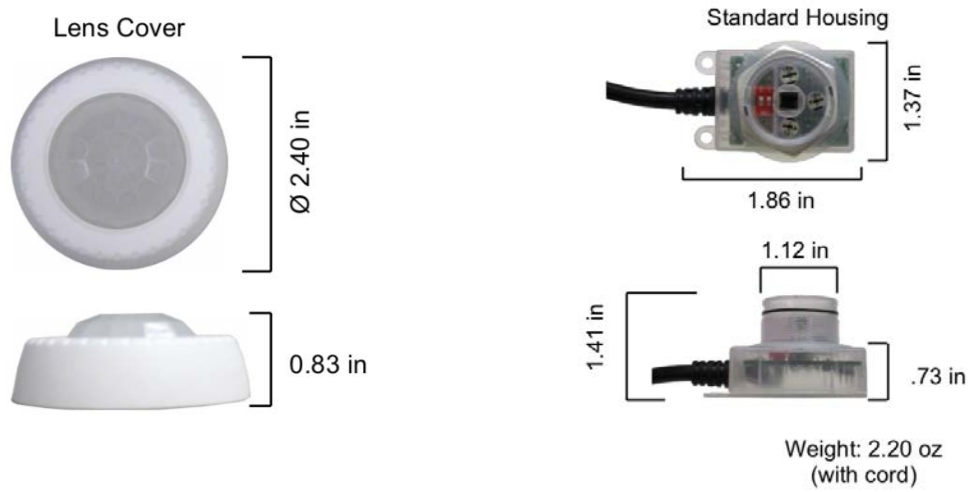


**Figure 1. AVI-PS-277-12-250 Power Supply**

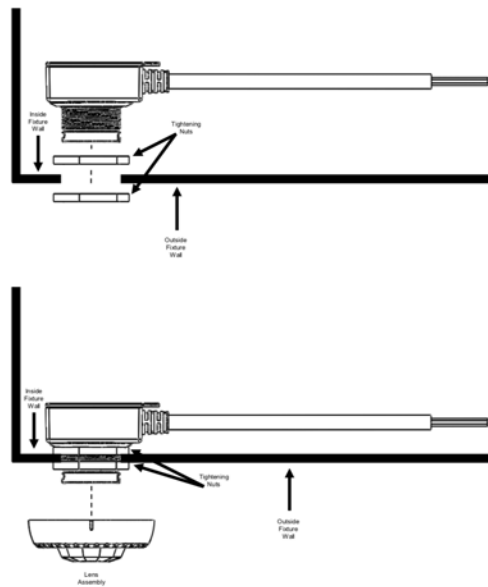
*\*Avi-on sensors require 12-24 VDC power which can be supplied by a compatible driver with an Aux out or the AVI-PS-277-12-250 power supply (sold separately).*



## Product Diagrams

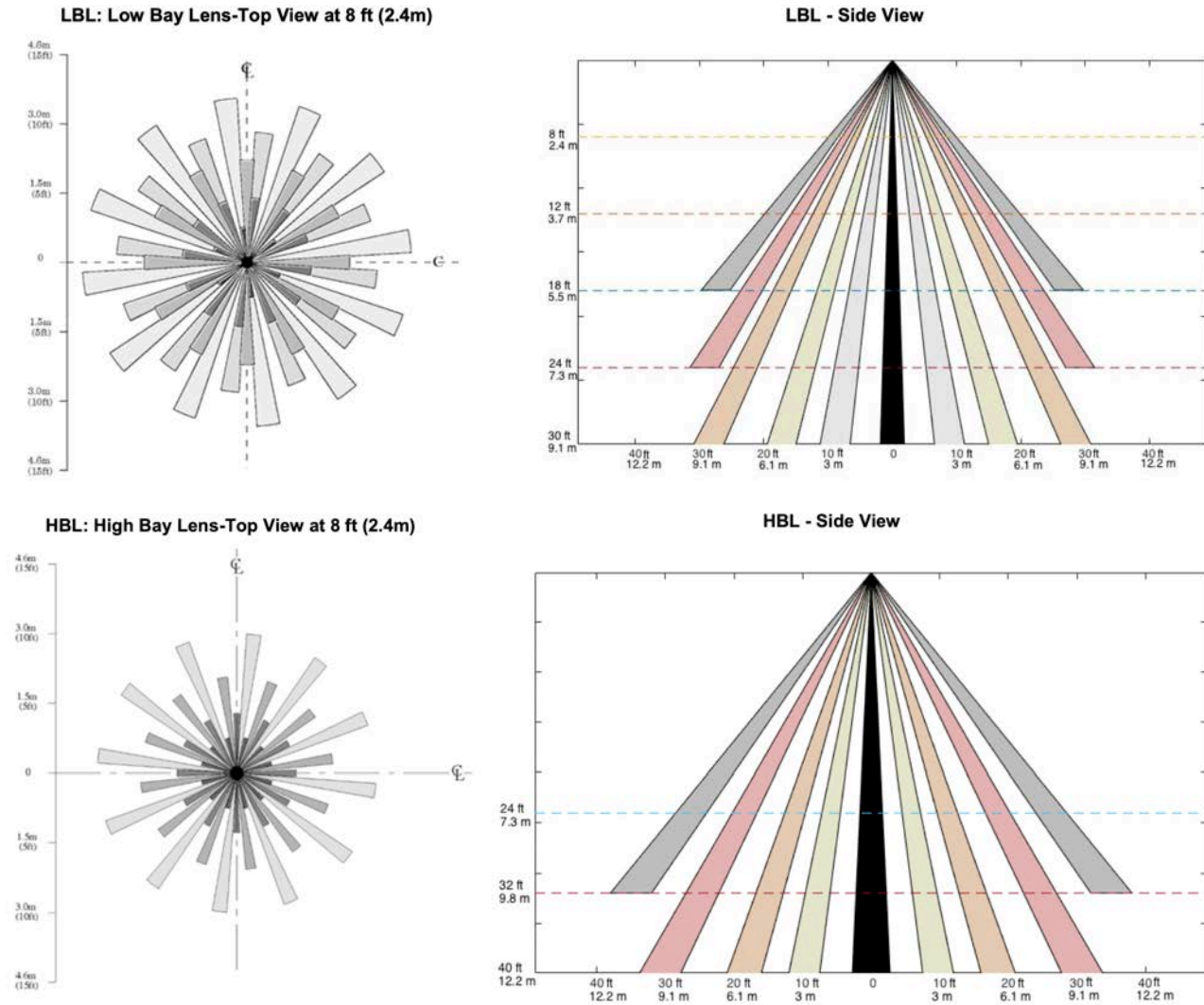


**Figure 2. Avi-on PIR Sensor Dimensions**



**Figure 3. Installation Examples**

# Product Diagrams



**Figure 4. Detection Area**



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