

# Outdoor Direct Connect PIR Sensor

## Occupancy & Daylighting

**Works with all Avi-on Fixture & Zone Controllers**

**Bi Level PIR Motion & Daylighting Sensor**  
Fully Adjustable parameters

**Bronze Color**

Matches most common outdoor fixtures, and blends well with black

**Outdoor Rated**

- UL Outdoor Rated
- IP 67
- Fixture or Waterproof Junction Mount

**Easy Connect to Avi-on Fixture & Zone Controllers**

**High Resolution Lens & Sensor**  
A Single product suited for 8' to 40' mounting heights

- Includes daylight sensor



## PRODUCT OVERVIEW

### Description

The Avi-on® Direct Connect™ PIR Outdoor Sensor provides motion detection and/or daylight harvesting in a single, compact unit. Passive Infrared (PIR) sensing technology works with any Avi-on fixture and zone controller. The outdoor version is UL Outdoor rated, including special F1 plastic, carrying long-term UV and weather resistance. The sensor is an integral part of the Avi-on Bluetooth® with Mesh product ecosystem and can control individual fixtures or groups. The network automatically detects the sensor locations and commissions them into the system with their associated fixtures. Configuration can be done using the Avi-on mobile app, commissioning tools, and cloud IoT services remotely or on-site.

### Operation

The sensor receives communication and power from any Avi-on Fixture or zone controller via an Avi-on standard low-

voltage cable. The motion sensor supports a wide array of control strategies, including motion detection, bi-level, day/night photocell, scheduled operation, and even daylight harvesting.

### Applications

Suitable for covered or non-covered parking areas, walkways, or other outdoor settings up to 40 feet. Sensitivity levels for different applications can be easily set locally or remotely using the mobile app. The IP67 rating ensures long-term reliable operation.

The outdoor sensor is rated for installation into fixture knockouts (downward-facing) or watertight junction boxes using the supplied gasket to ensure a watertight connection. The Avi-on mounting elbow is not rated for outdoor applications.

## ORDERING INFORMATION

Part Number	Description	Application	Color
AVI-DC-PIR-OA	Direct Connect™ Outdoor PIR & Daylighting Sensor*	In-fixture, junction, ceiling	Bronze

\*Includes mounting nut and 3ft cable

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.

Project	Location/Type

# SPECIFICATIONS

**Height Range:** 8ft-40ft (2.5m-12m)  
**Input:** Avi-on Direct Connect Low Voltage Sensor Port  
**Dimensions:** 2.30 in x 1.43 in x 0.75 in (58.2mm x 36.4mm x 19mm)  
**PIR Head Mounting (Junction Mount or Fixture):** 1/2in (18mm). Threaded insert size: 0.80in (20.5mm) x 0.4in (10mm) tall. Thread plus supplied nut accommodates material thickness from 0 to 0.6in (0 to 15mm).  
**Color:** Bronze  
**Weight:** 1.4 oz (40g)  
**Wiring:** Direct Connect Cable: 3ft (1m) - included  
**Operating Temp:** -22F to +158F (-30C to +70C)\*  
**Storage Temperature:** -40F to +185F (-40C to +85C)  
**Humidity Rating:** 95% non-condensing  
**Programming:** Via Avi-on platform. Mobile, laptop, remote, local. Program single or groups of sensors

**Operating Modes:** Occupancy, vacancy, photocell, bi-level, dim-to-specified level (never off),

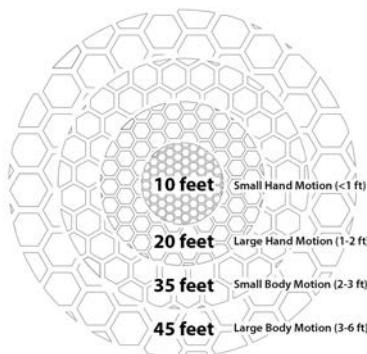
**Occupancy Sensor:** schedule driven, control zones or individual fixtures  
**Lens:** Quad element high sensitivity, 360° Hi resolution, continuous detection pattern  
**Time Delays:** 15 sec - 1h 30 min adjustable via network (20 min default)  
**Status LED:** On motion detection. Fixture light flashes on motion in test mode  
**Daylight Harvesting:** Open or closed loop (0-1020 Lux)  
**Daylighting Range:** 360° x 90°  
**Spacial Coverage:** 90°  
**Warranty:** 5 years; 10 years optional  
**Certifications:** UL 916- Suitable for Outdoor Use', Raintight IP 67 (when used with included fixture gasket)

*\* Note: Operating controller at or above these levels may result in damage components/product*

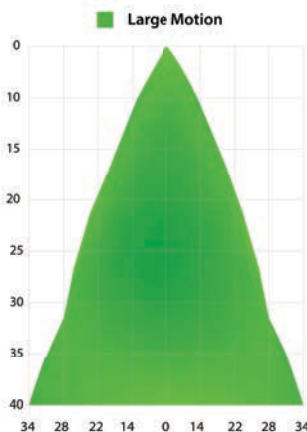
# COVERAGE CHARTS

The Avi-on PIR sensor does not require separate high and low bay lenses because of its unique Hexa-ray™ lens that provides consistent detection and smaller dead spots whether the sensor is mounted 10ft or 40ft high. Sensitivity adjustment to different applications is done through the mobile app on individual or groups of sensors.

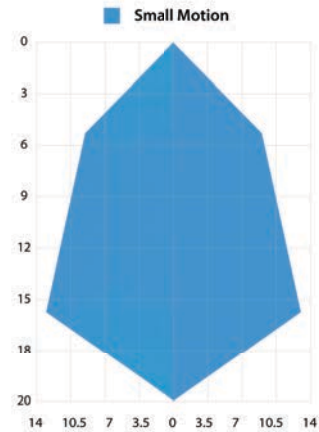
Coverage Pattern



Large Motion Detection



Small Motion Detection



**INSTALLATION GUIDE:** <https://avi-on.com/wp-content/uploads/pdf/install-guides/DC-PIR-Sensor-Installation.pdf>

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