Outdoor Direct Connect PIR Sensor
Occupancy & Daylighting

AVI-ON ®
Bluetooth® Lighting Controls

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

Easy Connect to Avi-on Fixture & Zone Controllers

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

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
AVI-DC-PIR-ELB	End-Cap mounting elbow	In-fixture, junction, ceiling	White
AVI-DC-10FTCBL	10ft (3m) Direct Connect™ Cable	Junction, ceiling	Gray
AVI-DC-PIR-GASKET	Gasket for fixture attachment in watertight applications	Fixture, Junction Mount	Black

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

Project		Location/ Type	

SPECIFICATIONS

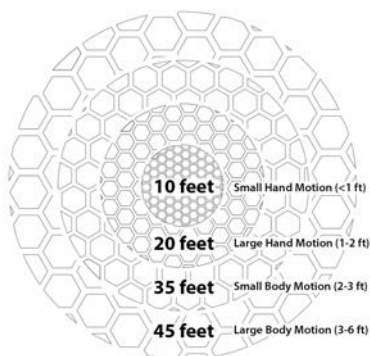|	
Height Range:	8ft-40ft (2.5m-12m)
Input:	Avi-on Direct Connect Low Voltage Sensor Port
Dimensions:	2.30 in x 1.43 in x 0.75 in (58.2mm x 36.4mm x 19mm)
PIR Head Mounting (Junction Mount or Fixture):	1/2in (18mm). Threaded insert size: 0.80in (20.5mm) x 0.4in (10mm) tall.. Straight Threads. Maximum pipe thread (angled thread material thickness): 3/16" (5MM). Thread plus supplied nut accommodates material thickness from 0 to 0.25in (0 to 7mm).
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), schedule driven, control zones or individual fixtures
Occupancy Sensor:	Quad element high sensitivity, 360º
Lens:	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:	360º x 90º
Spacial Coverage:	90º
Warranty:	5 years; 10 years optional
Certifications:	UL 916- Suitable for Outdoor Use', Rain tight IP 67 (when used with included fixture gasket)

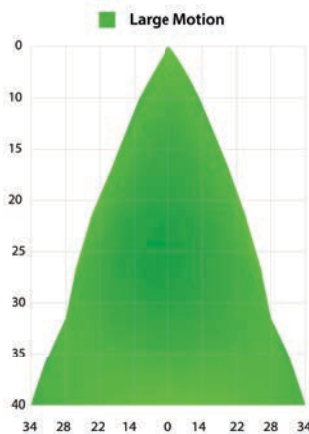** Note: Operating controller at or above these levels may result in damage components/product*

COVERAGE CHARTS

The Avi-on PIR sensor does not require separate high and low bay lenses because of it's 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.
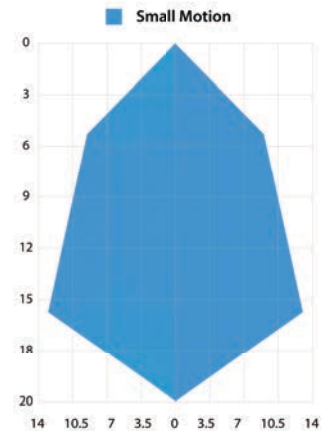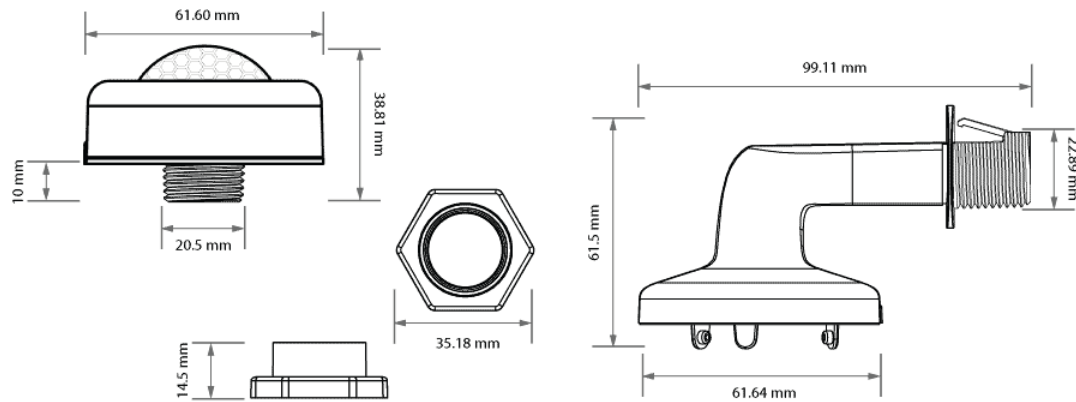
Coverage Pattern

- **10 feet** Small Hand Motion (<1 ft)
- **20 feet** Large Hand Motion (1-2 ft)
- **35 feet** Small Body Motion (2-3 ft)
- **45 feet** Large Body Motion (3-6 ft)

Large Motion Detection

Small Motion Detection

DIMENSIONS

61.60 mm

38.81 mm

10 mm

20.5 mm

14.5 mm

35.18 mm

99.11 mm

22.89 mm

61.5 mm

61.64 mm

Images not to scale

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