

Description

The Avi-on® Direct Connect™ PIR Sensor provides motion detection and/or daylight harvesting in a single compact unit. Passive Infrared (PIR) sensing technology works with any Avi-on fixture & zone controller. The sensor is an integral part of the Avi-on Bluetooth® with Mesh product ecosystem including the ability to support Luminaire Level Lighting Control (LLLC) and/or groups of fixtures. The network auto detects the sensor locations and commissions into the system with its associated fixture. Configuration is 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 Occupancy, Vacancy, Bi Level, scheduled operation, even safety presence detection for UV-C lighting. Daylight sensing can apply to zones of fixtures as required by code.

Application

The versatile design and mounting options make this sensor a great solution for commercial, institutional and industrial applications such as warehouses, manufacturing plants, gymnasiums, offices, schools or common areas.



Ordering Guide

Part Number	Description	Finish
AVI-DC-PIR	Direct Connect PIR & Day lighting Sensor	White



AVI-DC-PIR AVI-ON Motion Sensor

Fixture Type:

Project Name:

Location:

Date:

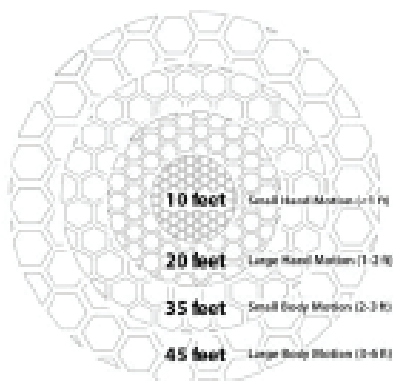
Specification

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 (Ceiling 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).
Elbow Mounting:	Connector thread size 0.80in (20.5mm) x 0.79in (20mm). Elbow extends 2" from the fixture edge and 2" down from the hole center. Inner clearance from fixture mount edge to inside edge of sensor is 3/4"
Weight:	1.4 oz (40g)
Wiring:	Direct Connect Cable: 3ft (1m) - included and 10ft (3m) available
Operating Temp:	-22F to +158F (-30C to +70C)*
Storage Temperature:	-40F to +185F (-40C to +85C)
Humidity Rating:	95% non-condensing

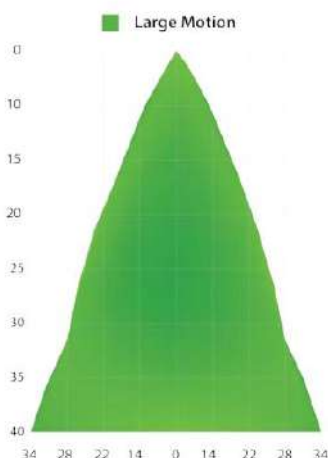
Programming:	Via Avi-on platform. Mobile, laptop, remote, local. Program single or a groups of sensors
Operating Modes:	Occupancy, vacancy, UV-C safety, b-level, dim-to-specified level (never off), schedule driven, control zones or individual fixtures
Occupancy Sensor:	Quad element high sensitivity, 360°
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:	360° x 90°
Spacial Coverage:	90°
Warranty:	5 years; 10 years optional
Certifications:	UL 916 (Indoor) IP 67

Coverage Chart

Coverage Pattern



Large Motion Detection



Small Motion Detection

