Direct Connect Microwave Sensor Occupancy & Daylighting

Works With All Avi-on Fixture & Zone Controllers

Product Overview

Description
The Avi-on® Direct Connect™ Microwave Sensor provides motion detection and/or daylight harvesting in a highly compact unit. Microwave 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 automatically detects the sensor locations and adds them to the system with their associated fixtures. Commissioning can be done using the Avi-on mobile apps or installer web tools. Sites that subscribe to Avi-on IoT Cloud Services using an Avi-on Remote Access Bridge can be commissioned remotely.

Operation
The sensor receives communication and power from any Avi-on load 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.

Applications
The versatile design and mounting options make this sensor a great solution for commercial and institutional applications such as offices, schools, or common areas. as well as behind a lens of sealed fixture low bay applications.

The sensor can be mounted in many different ways including behind a lens using an innovative magnetic mounting clip, screwed on using elbow or flush brackets, or clipped to acoustic tile rail on the edge of the fixture with the supplied tile clip. The microwave pattern can be tuned to a variety of applications up to 15 feet using the mobile app or remote setup tools. Best of all, the low-power unit will not shine through floors, walls, or windows.

Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Product Name</th>
<th>Application</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>AVI-DC-MW</td>
<td>Direct Connect™ Microwave &amp; Daylighting Sensor*</td>
<td>In-fixture, tile mount, indoor</td>
<td>White</td>
</tr>
<tr>
<td>AVI-DC-10FTCBL</td>
<td>10ft (3m) Direct Connect™ Cable**</td>
<td>Ceiling mount, indoor</td>
<td>Gray</td>
</tr>
<tr>
<td>AVI-DC-MW-MAG</td>
<td>Microwave Magnetic Mount**</td>
<td>In-fixture, indoor</td>
<td>Gray</td>
</tr>
</tbody>
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*Includes acoustic tile rail mount clip and 3ft cable.
**Accessory

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.
Avi-on Product Specifications

Specifications

Input: Avi-on Direct Connect™ Low Voltage DC Sensor Port

Dimensions: 2.30 in x 1.43 in x 0.75 in (58.2mm x 36.4mm x 19mm)

Mounting: Acoustic tile clip included. Magnetic mount for inside fixture mounting available. 4mm M4 screw threads for mounting clip by customer

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 groups of sensors at once

Operating Modes: Occupancy, vacancy, UV-C safety, bi-level, dim-to-specified level (never off), schedule driven, control zones or individual fixtures

Microwave Sensor: 360º hi resolution, low power

Time Delays: 15 sec - 1hr 30 min adjustable via network (20min 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

Height Range: 8ft-15ft (2.5m-4.2m)

IP Rating: None

Warranty: 5 years, 10 years optional

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

Diagrams

Wiring Diagrams

Dimensions

Clip Mount

Magnetic Mount

Images not to scale
Avi-on Product Specifications

Coverage Charts

Large Motion Detection

Small Motion Detection