

Long Range Microwave Sensor Kit

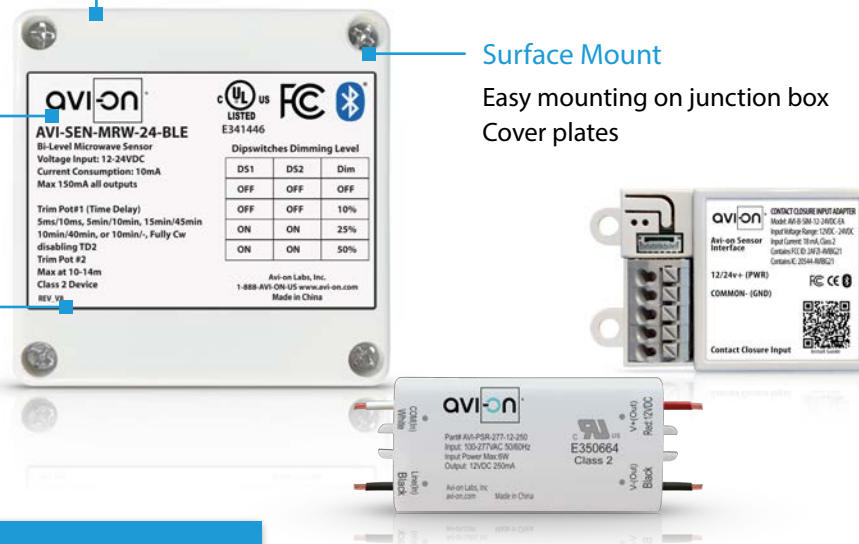
Long Range Motion Detection For Large Areas

Fully Network Configurable
Program settings locally or remotely

Long Range Sensitivity
Cover multi-hundred foot open areas with a single sensor

12-24 DC Power or 110-277 VAC
Easy to install in a junction box with a low cost AC-DC power supply

Surface Mount
Easy mounting on junction box Cover plates



PRODUCT OVERVIEW

Avi-on's Long Range Microwave Sensor is suited to cover large open areas like open manufacturing and warehouse floors up to 100ft tall. When side mounted, the sensor can cover areas up to 100 wide by 250 long, allowing much fewer sensors per fixture than PIR or other sensor options. The kit includes an Avi-on Sensor Input Module and functions as a stand alone network component for zoned sensor applications. The sensor does not include a daylight harvesting sensor or 0-10V dimming output, but I can also be directly connected

Use it for: Large motion open area motion detection up to 100ft tall, or side mounted up to 100ft wide covering areas up to 250 feet long.

Use other products for:

- Use AVI-DC-MW for office, low bay, sensor per fixture applications or if daylight harvesting is needed
- Use AVI-DC-PIR for high bay ceiling mount with warehouse aisles or other obstructions
- Not recommended for outdoor applications near lights where insects may false trigger the sensor

Coverage

Note coverage pattern when designing placement and density.

ORDERING INFORMATION

Part Number	Description	Antenna	Input Voltage
AVI-KIT-MRW	Long Range Microwave, Junction Mount, with SIM and Power Supply (AVI-SEN-MRW-24-BLE + AVI-B-SIM-12-24-EA+AVI-PS-277-12-250)	Internal	12 - 24 VDC 110-277VAC with included Power Supply

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
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SPECIFICATIONS

Input Voltage: 12-24VDC or 110V-277VAC with included power supply
Power Consumption: 105mA
Sensor Frequency: 10.525 Ghz
Sensor Range: 25-100 ft (vertical mount)
 25-150 ft (horizontal mount)
Size (Sensor Only): 2.28in x 2.28in x 1.02in
 (58mm x 58mm x26mm)
Mounting: Screw holes (see diagrams)
Weight (Sensor Only): 3.5 oz (98g)
Connection Wires: 22 AWG DC, 18 AWG AC
Operating Temperature: -22F to +158F (-30C to +70C)
Storage Temperature: -40F to +176F (-40C to +80C)
Humidity Rating: 90-95% non-condensing

Microwave Radio Freq: 10.525 Ghz
Mesh Radio Freq: 2.4Ghz
Wireless Standard: BLE 4.2 with Avi-on Mesh
Point to Point Range*: 80ft with obstructions and 350ft unobstructed
Security: AES 128-bit encryption for device to device communication
 AES 256-bit encryption for device to cloud communication
Warranty: 5 years; 10 years optional
Regulatory:
 Network: FCC: 2AFZI-AV11010 B
 IC: 20544-AV11010 B
 BQB: D031801, DID: 86303
 Sensor: FCC: ZZ0WCM-01
 UL E341446

**When communicating through the mesh, range is essentially unlimited (5000ft+)*

DIMENSIONS

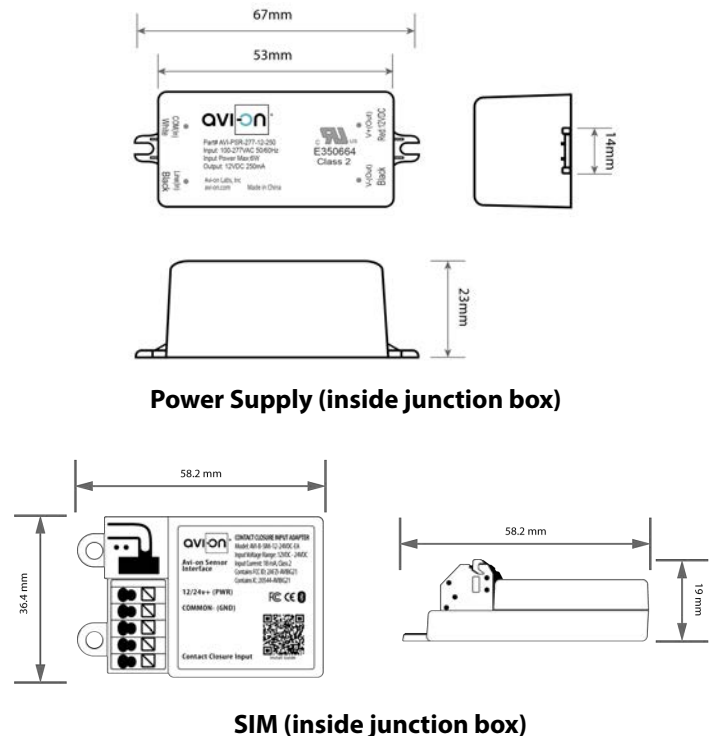
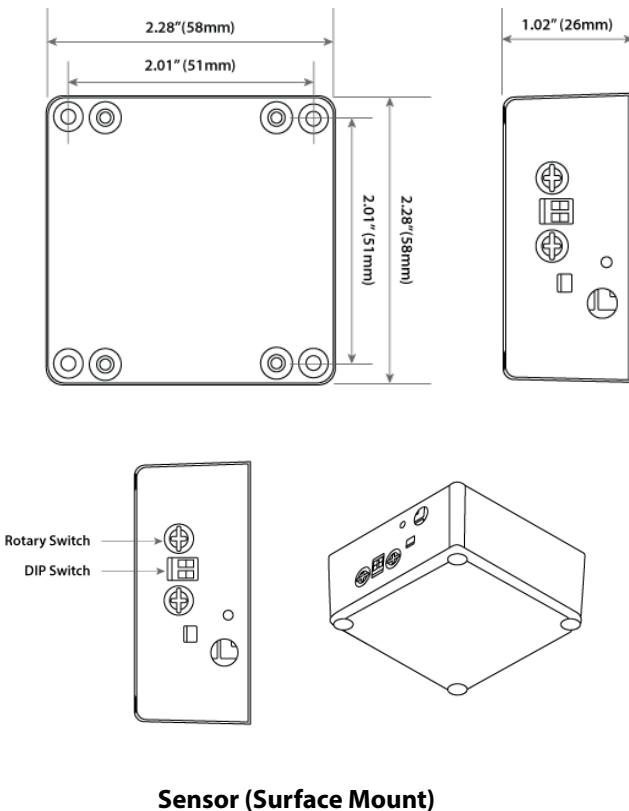


Figure 1. Dimensions

DIAGRAMS

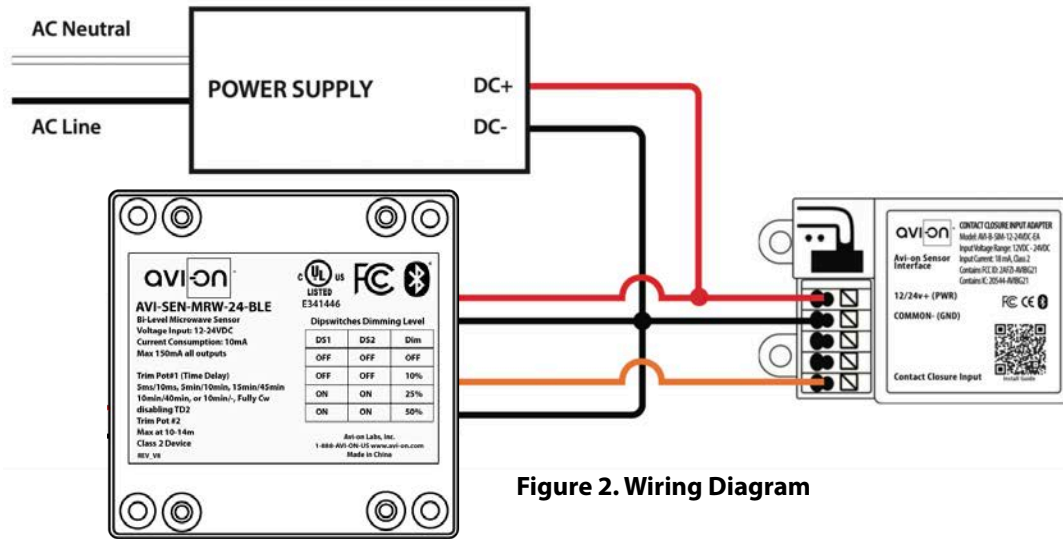
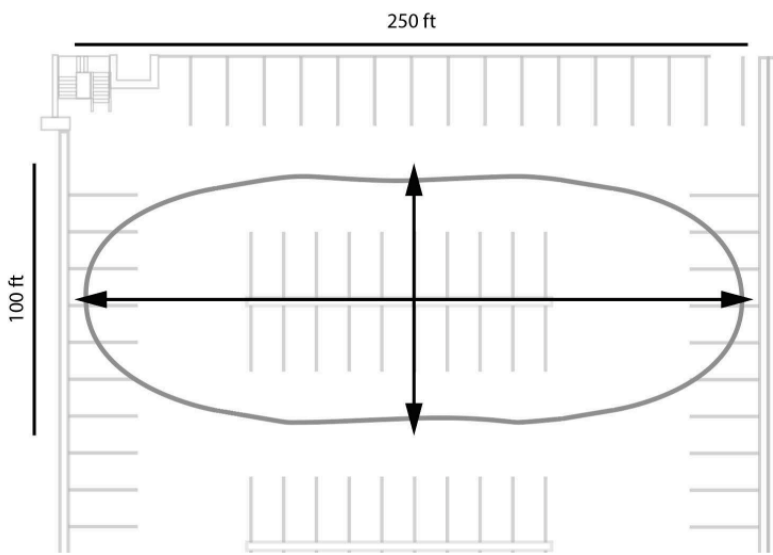
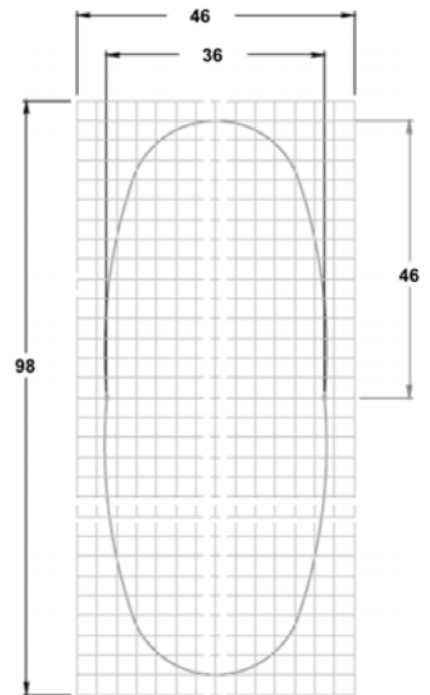


Figure 2. Wiring Diagram



Horizontal Mount at 10ft (3M)



Vertical Mount at 100ft (30M)

Figure 3. Coverage Patterns

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