TIOSL

Z10 Mircrowave Smart Sensor (Silvair)

Overview

- Bluetooth® Mesh
- 0-100 fc Range
- High tsensitivity Mircrowave sensor
- DC 12V Power supply

- Zoning, Continuous, Dimming ,Timmer Group control, Scene control, single light control

- Conforms with DLC NLC5 Cybersecurity Standards

Applications

Silvair's Bluetooth sensor provides automatic lightingcontrol for a variety of indoor & outdoor applications. It can be mounted on any flat surface such as ceilingor fixture.

Typical applications include classrooms,private offices. conference rooms, lobbies corridors and any indoor & outdoor areas.

Alternatively , the sensor can operate with a driver that has an auxiliary output (12V).

Silvair Mesh Controls: Qualified by Bluetooth for its Bluetooth Mesh 1.0.1 specification, the sensor connects to a Bluetooth mesh network and is accessed via the Silvair web portal or mobile app for configuration as well as subsequent parameter adjustments

User Interface: Using the mobile app, end users can then program length of delay time/wait time (this delay prevents the system from adjusting levels as a cloud passes by or another short environmental change happens), ramp and fade time, and other settings using these commissioning tools.

Dimming: The Bluetooth sensor transmits to a Silvair Fixture to sensor control LED drivers.

See Silvair Commissioning User Manual for more information.

Summary

|	
Model:TL-SA-BMVN-MN-12-02 Input Voltage	Current Consumption: DC12V	150mA max Mounting: Ceiling	
Mounting Height: 50 Ft nominal	
Measuring Range： 0-100 fc (0-1076 Lux)	
Max Bluetooth Range[1] 165ft (50m)	
Operating Temperature: -20°C to 55°C	
Storage Temperature: -40°C to 80°C	
Relative Humidity: 90-95% non-condensing at 30°C	
Color: White	
Warranty: 5 years	

Note:

1. Bluetooth Range is highly dependent on the integration of fixtures, surrounding environment and conditions. It is recommended to conduct testing for range accuracy.
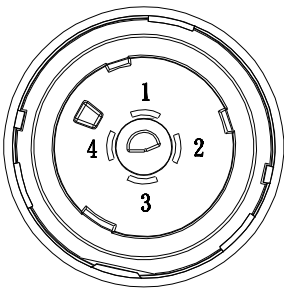
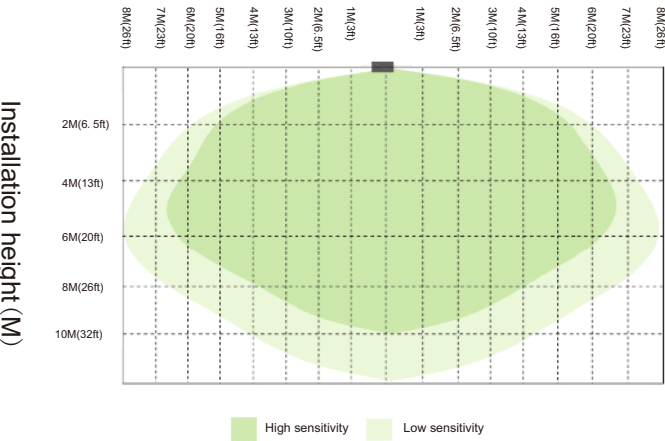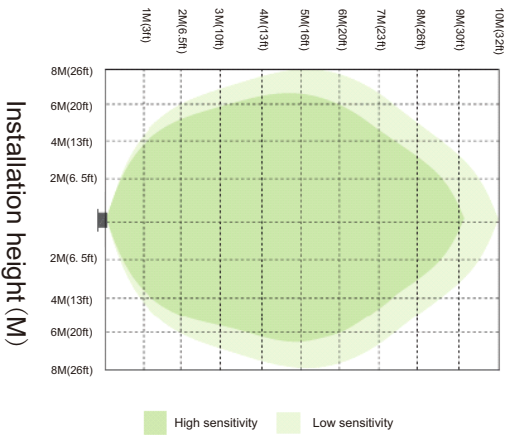| Project	
Location/Type	

Bluetooth module

22.6mm(0.89")
27.2mm(1.07")
7mm(0.67")

44.7mm(1.76")
52mm(2.05")

38.5mm(1.51")

Wiring

1
4
2
3
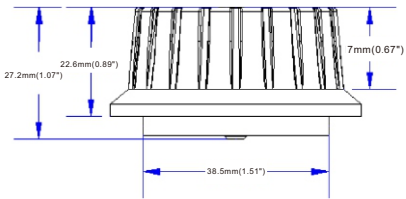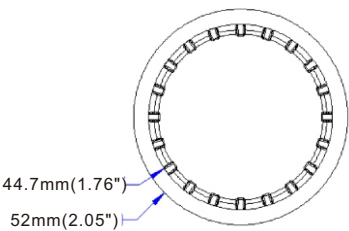
PIN1: 12V
PIN2: GND/DIM-
PIN3: NC
PIN4: DIM+

Sensor detection angle

Contest installation detection range map

8M(26ft) 7M(23ft) 6M(20ft) 5M(16ft) 4M(13ft) 3M(10ft) 2M(6.5ft) 1M(3ft) 1M(3ft) 2M(6.5ft) 3M(10ft) 4M(13ft) 5M(16ft) 6M(20ft) 7M(23ft) 8M(26ft)

Installation height (M)

2M(6.5ft)
4M(13ft)
6M(20ft)
8M(26ft)
10M(32ft)

High sensitivity   Low sensitivity

Wall installation detection range map

1M(3ft) 2M(6.5ft) 3M(10ft) 4M(13ft) 5M(16ft) 6M(20ft) 7M(23ft) 8M(26ft) 9M(30ft) 10M(32ft)

Installation height (M)

8M(26ft)
6M(20ft)
4M(13ft)
2M(6.5ft)

2M(6.5ft)
4M(13ft)
6M(20ft)
8M(26ft)

High sensitivity   Low sensitivity

Wiring circuit diagram

VCC/12V+
GND/DIM-
DIM+

L
E
N

L
E
N

LED+
LED-