Microwave Fixture-Mounted Controller

Model: C-TFW-42-DF00

Features

- Microwave Occupancy Sensor
- Bluetooth Mesh Qualified
- LED Motion Indicator
- Suitable for Indoor Use Only
- Available with White or Black trim

Specifications

- Sensor Type - Microwave
- HF System - 5.8GHz ± 75MHz
- Input Voltage - 12-24VDC
- Current Consumption - 50mA
- Output 0-10V - Max. 25mA Sinking current
- Max Mounting Height - 13' (4m)
- Max Detection Area* - 17' (5.2m) radius
- Operating Temperature - 40°F to 158°F (-20°C to 70°C)
- Dimensions - 4.3" X 0.73" X 0.33" (105mm X 18.5mm X 8.5mm)
- Warranty - 3 Years

*results may vary based on mounting height, temperature, angle, floor material, and line of sight.

Description

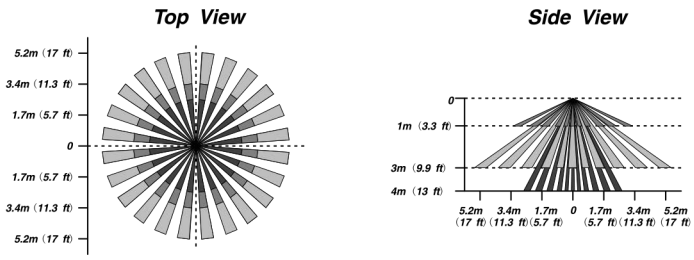
The S-OW is a moving object sensor that can detect with a 360° range and works at a frequency of 5.8GHz with a high frequency output < 0.2mW.

Sensor Operation

End users can program length of time delays, light level sensitivity, sensor range and other settings using the BubblyNet App.

Detection Area (reference only)

SENSOR COVERAGE



Certifications

Connectivity

Devices are repeaters for other devices and should be installed within a certain maximum distance from each other.

Typical maximum distance: Outdoor (line of sight):	200ft
Indoor (through building material):	100ft
Glass:	70ft
Drywall:	60ft
Cinderblock:	50ft
Brick:	50ft
Concrete + rebar	0ft

Devices with external antenna should have the antenna outside any metal box and away from metal surfaces as metal reduces connectivity.

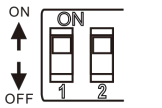
For design purposes a 60ft. maximum distance is appropriate for most installations.

PARAMETER SETTING BY DIP SWITCH

Consider the picture: 1, 2 set sensitivity; 3, 4 set hold time; 5, 6 set the lux; 7, 8 stand-by light level ; 9, 10 set stand-by time ;

Detection Range Setting (sensitivity)

Detection rang can be reduced by selecting the combination on the DIP switches to fit precisely each application:

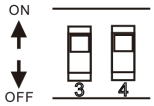


SENSITIVITY:1, 2

SENSITIVITY 1	2	
↓	↓	20%
↓	↑	50%
↑	↓	75%
↑	↑	100%

Hold Time Setting

The lamp can be set to stay ON for any period of time between approx.10sec and a maximum of 15min. Any movement detected before this time elapse will re-start the timer. It is recommended to select the shortest time for adjusting the detection zone and for performing the walk test.
Switch location and hold time of the corresponding table is as follows:

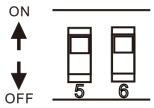


TIME:3, 4

TIME 3	4	
↓	↓	10S
↓	↑	1Min
↑	↓	5Min
↑	↑	15Min

Light-control Setting

The chosen lamp response threshold can be infinitely from approx. 10-50lux, switch location and light-control of the corresponding table is as follows:



LIGHT:5, 6

LIGHT 5	6	
↓	↓	☼ (light sensor disable)
↓	↑	10Lux
↑	↓	30Lux
↑	↑	50Lux

Stand-by Light Level Setting

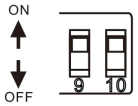
The corresponding file of switch location and stand-by level as follow:

STAND-BY LEVEL:7, 8

STAND-BY LEVEL 7	8	
↓	↓	0%
↓	↑	10%
↑	↓	30%
↑	↑	50%

Stand-by Time Setting

The corresponding file of switch location and stand-by time setting as follow:



STAND-BY TIME:9, 10

STAND-BY TIME 9	10	
↓	↓	+∞
↓	↑	1Min
↑	↓	30Min
↑	↑	60Min

PARAMETER SETTING BY REMOTE CONTROL IN MANUAL OF RC-100.

WIRING DIAGRAMS

ANT-7 wiring with dimming ballast or LED driver.