

Low Voltage Microwave Bi-level Sensor

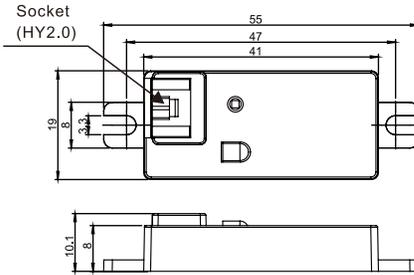
ANT-9C Instruction



ANT-9C



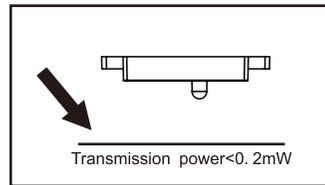
RC-100



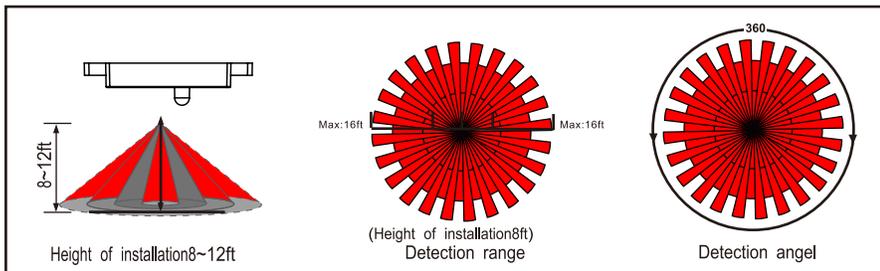
SPECIFICATIONS

Power supply	12V DC
HF System	5.8GHz±75MHz
Dim control output	0-10V, max. 25mA sinking current
Detection radius/angle	Max 16ft.(5m)/360°
Mounting height	Max 12ft
Remote range	50ft. (15m) indoor, no backlight
Humidity	Max. 95% RH
Temperature	-40°F ~ 158°F (-40°C ~ 70°C)

NOTE: The high-frequency output of this sensor is <0.2mW—that is just one 5000th of the transmission power of a mobile phone or the output of a microwave oven.



SENSOR COVERAGE



Once powering the device up, the ANT-9C will use factory default parameters to operate. If adjustments are needed,"RC-100"Wireless IR Configuration tool must be used.

■ Low Voltage Microwave Bi-level Sensor

ANT-9C Instruction

UTILIZING FIELD AND INTRODUCTION

ANT-9C is a moving object sensor that can detect range of 360° and its working frequency is 5.8GHz. The advantage of this product is stable working state (stable working temperature: -40°C~+70°C), ANT-9C adopts a microwave sensor (high-frequency output <0.2mW), so that it is safe and performs better than infrared sensor.

FUNCTION AND OPTIONS

The microwave sensor to achieve tri-level dimming control, for some areas that require a light change notice before switch off.

It offers 3 levels of the light Control : 100%--dimming light (0/10%/30%/50%)--off; and 2 periods of selectable waiting time: motion hold-time and stand-by time, Selectable daylight threshold and choice of detection area.



With sufficient natural light, the light does not switch on when presence detected.



With insufficient natural light, the sensor switches on the light automatically when person enters the (options) standby level after the room. The lamp never switch off with presence, even the nature light is sufficient.



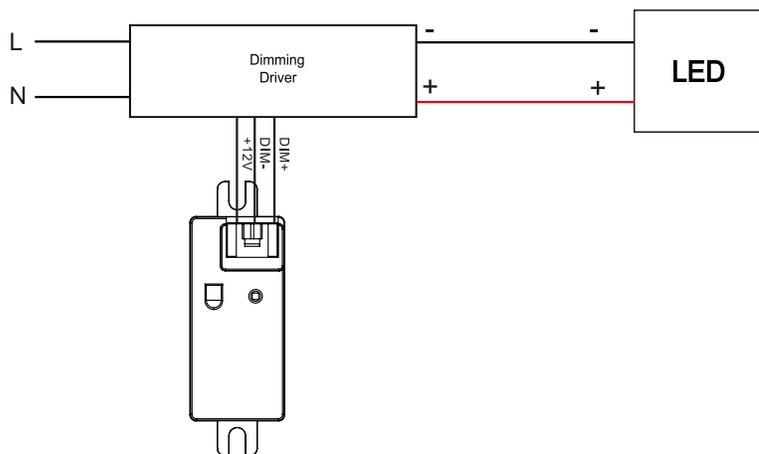
People left, lamp still dims to 0/10%/30%/50% (options) standby level after the hold time.



Light switches off automatically after the dimming time elapsed.

WIRING DIAGRAMS

ANT-9C wiring with dimming ballast or LED driver.



Change multiple setting of sensors with smart photocell sensor Open

1. Press **(DISP)**, the remote led indicators will show the latest parameters.
2. Press **(▲)** or **(▼)** enter in the setting condition, the parameter Led indicators of remote control will flash to be selected.
3. Press **(□)**, 2 led indicators will flash in daylight sensor settings, select daylight **(10)** **(30)** **(50)** as setpoint to light on Automatically, select daylight **(100)** **(300)** **(500)** as setpoint to light off Automatically.
4. Press **(OK)** to confirm all setting and saving.
5. Aim at the target sensor and press **(SEND)** to upload the new parameter. The led light which the sensor connects will on/off.

NOTE: **(□)** is disabled by default.

1. Open or close the smart daylight sensor by push **(□)** when remote control is in setting condition.
2. When the smart daylight sensor open, 2 Led indicators are flash in daylight sensor setting. select daylight **(10)** **(30)** **(50)** as setpoint to light on Automatically, select daylight **(100)** **(300)** **(500)** as setpoint to light off automatically. When smart daylight sensor close, 1 Led indicator is flash in the daylight sensor setting for choose daylight sensor threshold.
3. When the smart daylight sensor open, the stand-by time is only **(+∞)**.
4. Smart daylight sensor takes place of normal photocell sensor and works independently.
5. See **Daylight Sensor Function**.

Corridor Function

This function inside the motion sensor to achieve tri-level control, for some areas which require a light change notice before switch-off. The sensor offers 3 levels of light: 100%-->dimmed light (natural light is insufficient) -->off; and 2 periods of selectable waiting time: motion hold-time and stand-by period; Selectable daylight threshold and freedom of detection area.



With sufficient natural light, the light does not switch on when presence is detected.

With insufficient natural light, the sensor switches on the light automatically when presence is detected.

After hold-time, the light dims to stand-by level if the surrounding natural light is below the daylight threshold.

Light switches off automatically after the stand-by period elapses.

Daylight Sensor Function

Open the daylight sensor by push **(□)** when remote control is in setting condition.



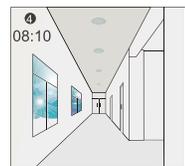
The light switches on at 100% when there is movement detected.

The light dims to stand-by level after the hold-time.

The light remains in dimming level at night.

Settings on this demonstration:
 Hold-time: 30min
 setpoint to light on: 50lux
 setpoint to light off: 300lux
 Stand-by Dim: 10%
 Stand-by period: +∞
 (when the smart photocell sensor open, the stand-by time is only +∞)

(1) **(2)** **(3)** goes in cycle at night...
 100% on when movement detected, and dims to 10% in long absence.



When the natural light level exceeds setpoint off to light, the light will turn off even if when the space is occupied.



The light on at 100% is insufficient.

Corridor Function VS Daylight Sensor Function

1. In corridor function, turn on the light MUST keep at least 1 minute, and Occupancy. In smart daylight sensor function, turn on the light MUST keep at least 1 minute, and daylight setpoint to light on even if vacancy.
2. In corridor function, turn off light by stand-by period, in smart daylight sensor function, turn off the light by natural light level if occupancy.
3. In smart daylight sensor function, natural light level MUST keep at least 1 minute, the light off/on MUST keep at least 1 minute, the light off/on MUST keep at least 1 minute, the light off/on MUST keep at least 1 minute.

About RESET and MODE(1,2,3,4)

The remote control comes with 4 Scene MODE parameters and save as the new MODE(1,2,3,4).

RESET: all settings go back to settings of DIP switch.

SCENE MODES(1 2 3 4)

Application	Scene Options	Brightness	Detection Area	Hold-time
Indoor	Mode 1	100%	75%	5min
Indoor	Mode 2	100%	75%	1min
Indoor	Mode 3	100%	75%	5min
Outdoor	Mode 4	100%	75%	1min

Change the MODES:

1. press **(MODE)** / **(MODE)** / **(MODE)** / **(MODE)** button, the remote control will show the current mode.
2. press **(▲)** / **(▼)** / **(◀)** / **(▶)** to select the new parameter.
3. Press **(OK)** to confirm all parameters and saving.

UPLOAD

The upload function allows you to configure the sensor. You may select CURRENT SETTING parameters or the MODE are displayed in Remote control.

Upload the current parameters to sensor

parameters form one to another

1. Press **(DISP)** button or press **(MODE)** / **(MODE)** / **(MODE)** / **(MODE)**, all parameters will be displayed.

Note: check if all parameters are correct, if not correct, press **(▲)** / **(▼)** to select the parameter to be changed.

2. Aim at the sensor and press **(SEND)** button, the light will be on/off.

Note: if other sensor need same parameters, just aim at the sensor and press **(SEND)** button.