



Low Voltage 12-24V DC Microwave Bi level Sensor



ANT-8A

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The ANT-8A is a moving object sensor that can detect range of 360 degrees and its working frequency is 5.8GHz. Adopting a microwave sensor (high frequency output <0.2mW) that is safe and performs better than an infrared sensor.

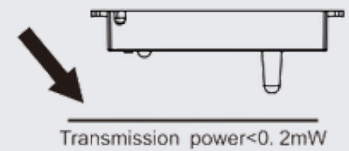


RC-100 (OPTIONAL)

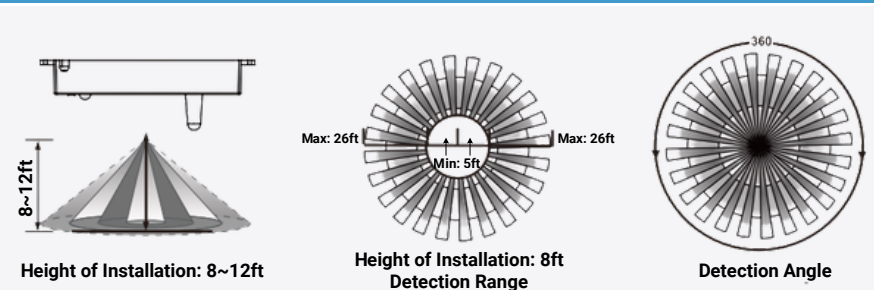
SPECIFICATIONS

Power Supply	Dim Control Output	HF System	Detection Radius/Angle
12V-24V DC	0-10V, max. 25mA sinking current	5.8GHz±75MHz	Max 26ft.(8m)/360°
Mounting Height	Remote Range	Humidity	Temperature
Max 12ft	50ft. (15m) indoor, no backlight	Max. 95% RH	-40°F ~ 158°F (-40°C ~ 70°C)

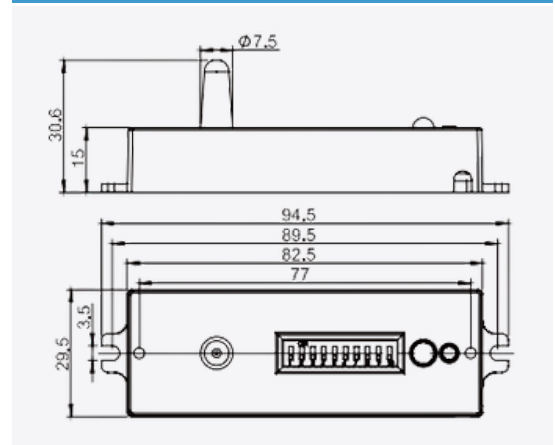
NOTE: The high-frequency output of this sensor is <0.2mW that is just one 5000th of the transmission power of a mobile phone or the output of a microwave oven.



SENSOR COVERAGE



DIMENSIONS



Once powering the device up, the ANT-8A will use factory default parameters to operate. If adjustments are needed, "RC-100" Wireless IR Configuration tool must be used.



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UTILIZING FIELD AND INTRODUCTION

ANT-8A is a moving object sensor that can detect range of 360° and it's working frequency is 5.8GHz. The advantage of this product is stable working state (stable working temperature: -40°C~+70°C), ANT-8A adopts a microwave sensor (high-frequency output <0.2mW), so that it is safe and performs better than infrared sensor.

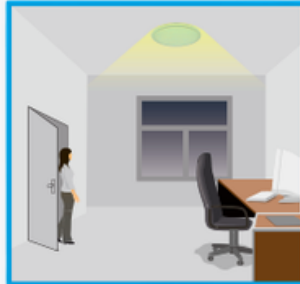
Function and Options

It offers 3 levels of light control: 100%→dimming light (0, 10%, 30%, 50%)→off; Periods of selectable waiting time: motion hold-time and 24hours, selectable daylight threshold, and freedom of detection area.

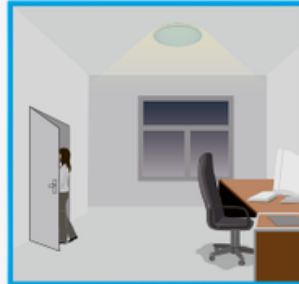
If natural light lower Light-control setting (10Lux, 30Lux, 50Lux), the light will not automatically on (0, 10%, 30%, 50%). When person enter in the room, the light will on 100%, after person left the room, the room enter in stand-by level after hold time.



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 if the natural light is sufficient.

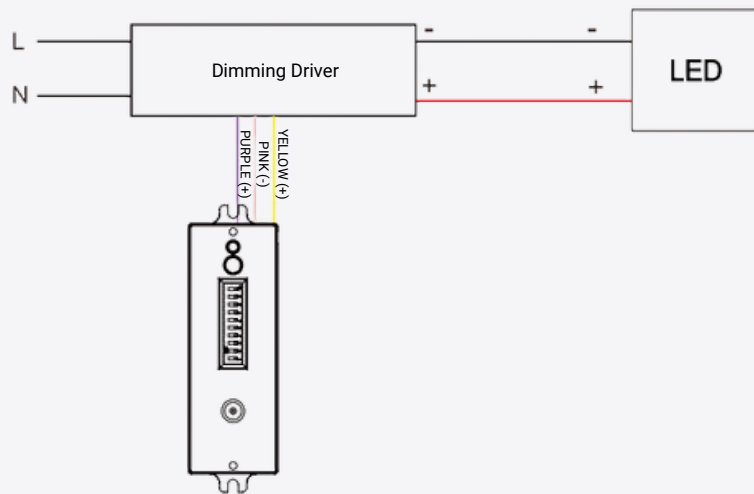


After people leave, light still dims to 0/10/30/50% (options) standby level after the hold time.



Light switches off automatically after the dimming time elapsed.

WIRING DIAGRAM





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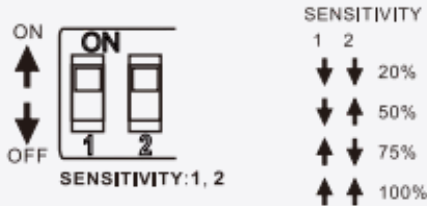
PARAMETER SETTING BY DIP SWITCH

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



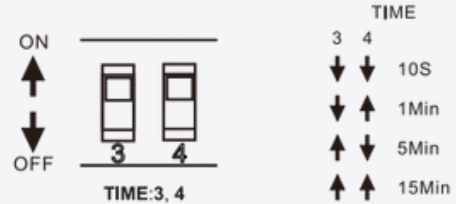
Detection Range Setting (Sensitivity)

Detection range is the term used to describe the radii of the more or less circular detection zone produced on the ground after mounting the sensor light at a height of 8-20ft, pull switch to the ON position is "↑", pull switch to the OFF position is "↓", switch location and detection range of the corresponding table is as follows:



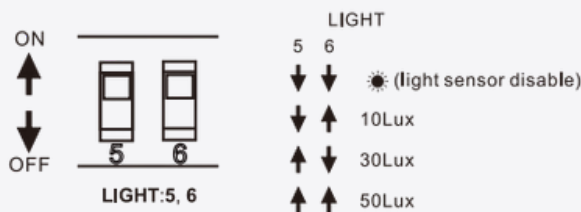
Hold Time Setting

The light 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. Pull switch to the ON position is "↑", pull switch to the OFF position is "↓", switch location and hold time of the corresponding table is as follows:



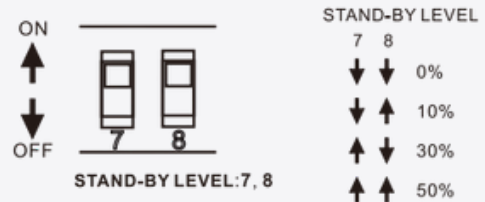
Light-Control Setting

The chosen light response threshold can be infinitely from approx. 10-50Lux, pull switch to the ON position is "↑", pull switch to the OFF position is "↓", switch location and light-control of the corresponding table is as follows:



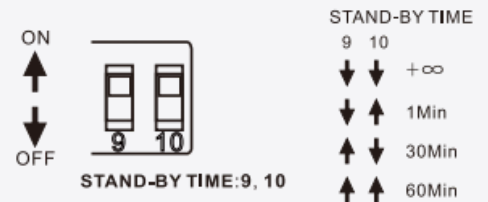
Stand-by Light Level Setting

Switch to the ON position is "↑", switch to the OFF position is "↓", switch location and stand-by level of the corresponding table is as follows:



Stand-by Time Setting

Switch to the ON position is "↑", switch to the OFF position is "↓", switch location and stand-by time setting of the corresponding table is as follows:



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



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PROJECT NAME	
CATALOG #	
JOB TYPE	
PREPARED BY	
NOTES	

ORDERING INFORMATION

Part #	Description
ANT-8A	Low Voltage 12-24V DC Microwave Bi level Sensor