

【Initialization】

- On/Off function / 3-Step dimming function: the sensor turns on the light at 100% brightness, and will be turned off after 10 seconds. During initialization,the sensor is not able to detect movement.
- 2-Step dimming function: the sensor turns on the light at 100% brightness. After 10 seconds, it dims the light to low light level (the brightness set by stand-by dim level). During initialization, the sensor is not able to detect the movement.

【Default setting】

Sensitivity: 100%, Hold time: 5s, Daylight sensor: Disable, Stand by period: 0s, Stand by DIM level: 10%

【Application Notice】

- Sensor should be installed by a professional electrician. Please turn off power before installing, wiring.
- The distance distance is related to factors such as the moving speed of the moving object, the size of the moving object, the installation height, the installation angle, whether the installation environment is open, and the material of the reflector. The detection distance given in the specification is a typical value, it is 165cm/65kg people who walks in an open indoor environment
- The daylight threshold is in a sunny environment, no shadows, and ambient light diffuse reflection conditions. In different periods, climates, and environments, the daylight value detected by the light sensor may be different.
- Sensor parameters may need to be reconfigured in different installation environments, please refer to the following instructions or contact the manufacturer
- This sensor is only for indoor use, outdoor use may be false triggered by wind and rain, and surrounding moving objects.
- The installation height of the sensor product cannot exceed 15 meters, and the suitable height is 12 meters; the distance between the two sensors should be greater than 3 meters
- When the sensor is installed in a metal lamp, on a metal reflective surface, or in a narrow closed environment, the microwaves will be reflected multiple times and cause false triggering. Please reduce the sensor sensitivity or contact the manufacturer for technical support.
- Sensor is compatible with different 0-10V driver but dimming effect will be different.
- DC regulated power supply with stable output voltage and low ripple coefficient must be used. The ripple of the power supply should be less than 100mV ; the load current should be greater than 50 mA
- For the new installation environment, it is recommended to test 5pcs samples before installation.

Instruction manual

Altumpro Microwave Sensor

111668



Thank you for purchasing this prodcut. Please read the instructions carefully before use to ensure safe and satisfactory operation of this product. Please retain these instructions for future reference.

【Product Feature】

- Low impedance planar antenna; High-gain
- Earphone interface
- 15 meters maximum installation height, suitable for most warehouses
- Mini Microwave motion detector for High Bay Lights.
- Junction box free design, IP65 waterproof
- Ultra-low RF power output, harmless to human health
- Sensor parameters can be adjusted by remote
- The sensing range is adjustable (high sense/low sense), suitable for different installation environments
- Not affected by temperature, humidity, noise, airflow, dust, light etc.
- Automatic swing structure , easy to plug and play.

【Parameters】

Input				
Rated voltage	11-13VDC			
Working current	<30mA			
Ripple voltage	<100mVp-p			
output				
Output signal	0 -10VDC dimming signal			
Sensor parameters				
Working frequency	5.8GHz ±75MHz, ISM band			
Transmitting power	3mW Max.			
Daylight Sensor	5lux/15Lux/30Lux/50Lux/100lux/150lux/Disable			
Daylight priority	ON	5Lux/15Lux/30Lux/50Lux	100Lux	150Lux
	OFF	150Lux	200Lux	300Lux
Dimming level	10%(1.4-1.6V)	20%(1.9-2.1V)	30%(2.9-3.1V)	50% (4.9-5.1V)
Detection range (radius)	Ceiling installation 12m high: 0.3m/s≥4m, 1m/s≥3m;			
Installation height	12m (15m Max)			
3db beam angle	82°@XZ plane			
	95°@YZ plane			
Environment				
Working temperature	-35~60℃			
Storage temperature	-40℃~80℃, humidity ≤85% (non-condensing)			
Certification standards				
Certified	CE			
Environmental requirements	Comply with RoHS 2.0 , Reach requirements			
IP Rating	IP65			
Other				
Wiring	Earphone interface			
Installation requirements	built-in installation			
Packaging requirements	Clapboard + Carton(K=A)			
Net weight	Body: 40.6±5g			
Lifetime	5 years warranty @Ta			

【Function description】

- ☒ON-OFF function

☒2-step dimming

☒3-step dimming

☒Daylight priority

☐Daylight harvesting
- Stand-by Period be set to “0s”

Stand-by Period be set to “+∞”

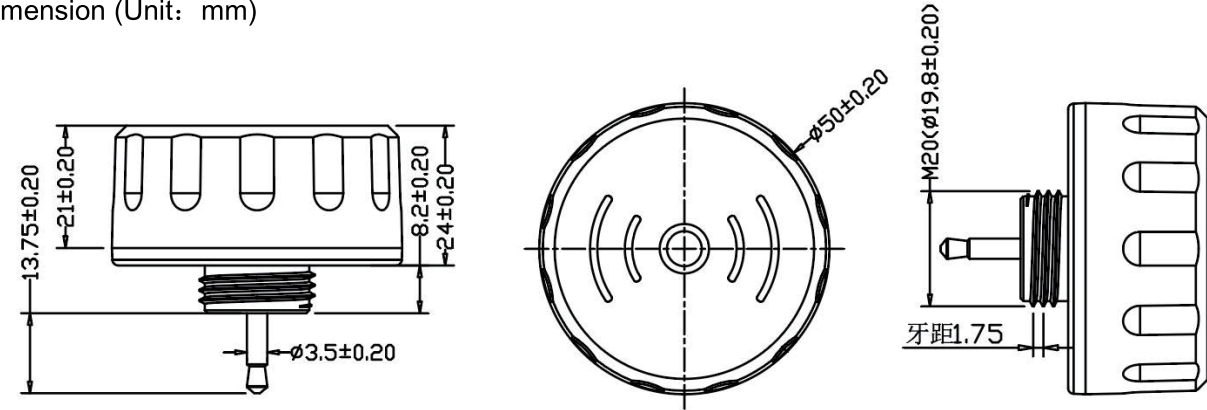
Stand-by Period be set to “10s/1min/3min/5min/10min/30min”

Remote set DH Mode+Daylight Sensor set to “5Lux/15Lux/30Lux/50Lux/100Lux/150Lux” N/A

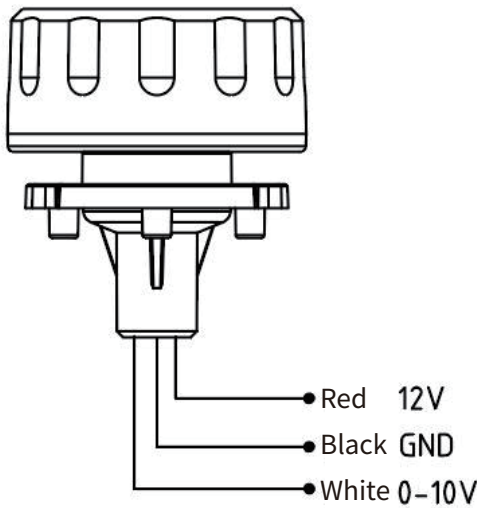
N/A

【Product Information】

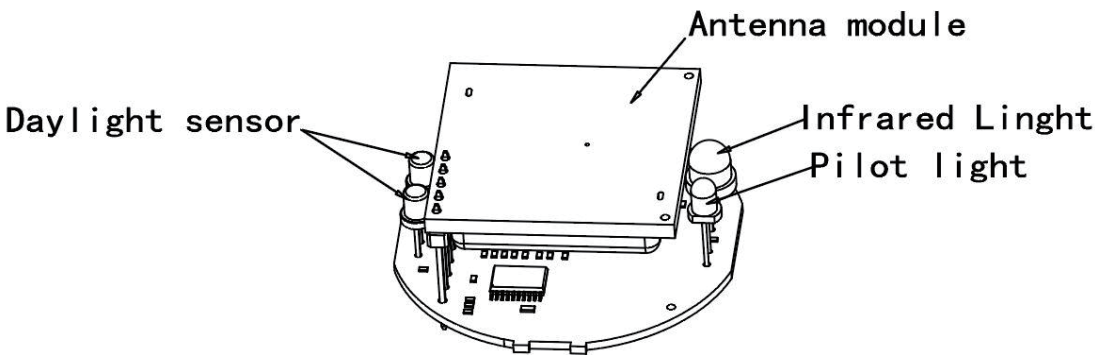
● Dimension (Unit: mm)



● Wiring

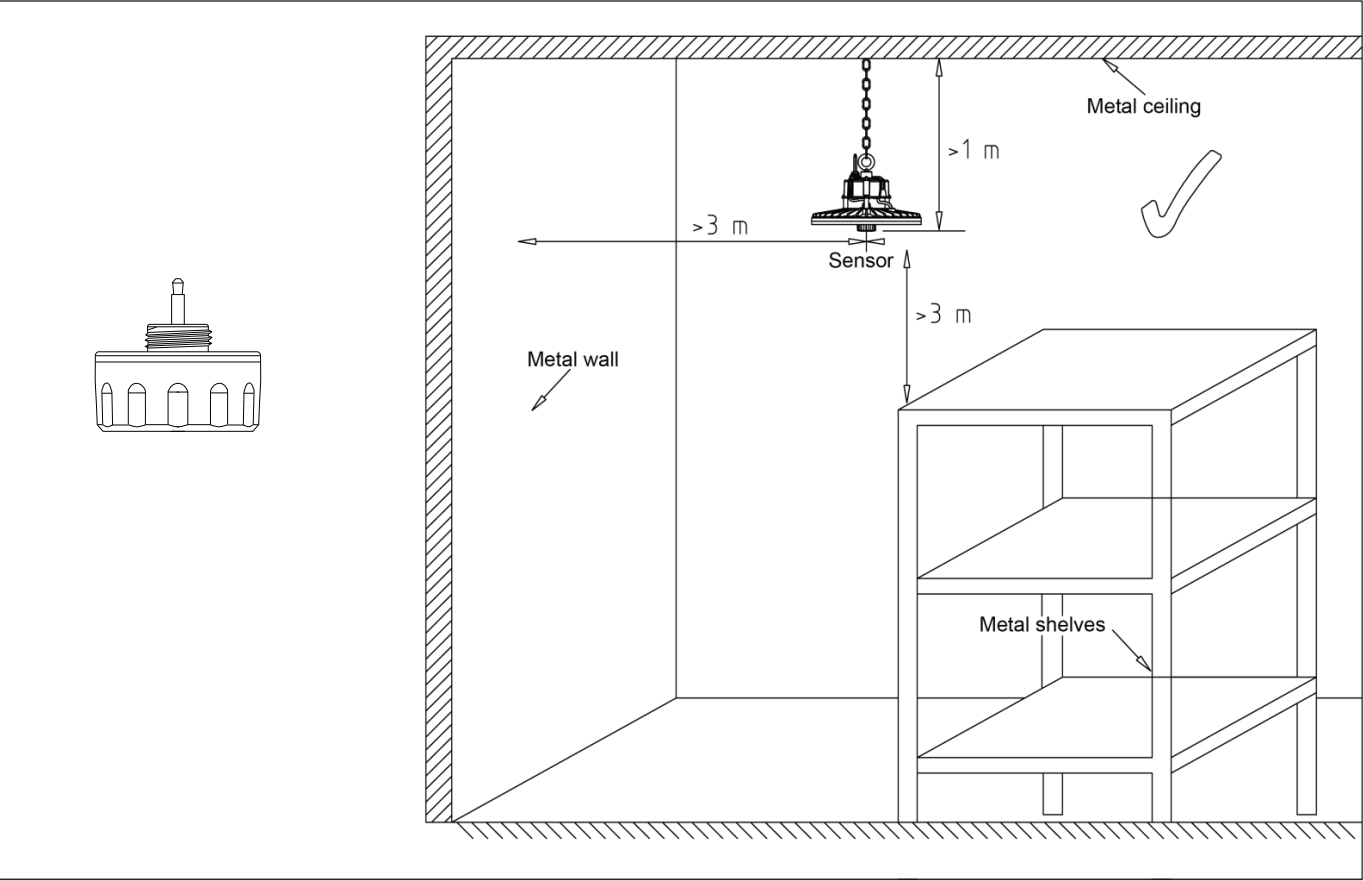


● Function



【Installation Instruction】

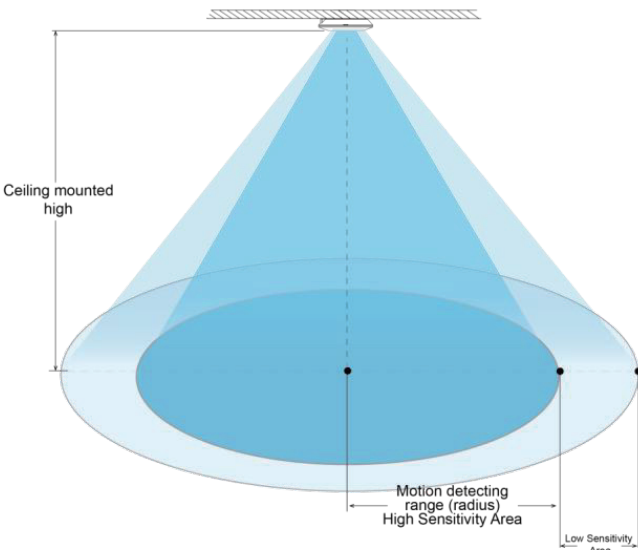
Installation environment



Note

When installing, please pay attention to the distance between the microwave antenna and the metal frame.

【Detection Range】



【High Bay Remote Control 78774】

The remote control can be used in combination with Microwave Sensor.

Remote Control Setting	Button	Remarks																												
	ON/OFF	Press the "ON/OFF" button, the load light enters the normal on/off mode, and the sensing function is disabled. In the normal on/off mode, the "DIM+/DIM-" function can be used to maintain the load light brightness after powering on again. In the normal on mode, the load light enter ON after powering on again. If the load light is OFF, the load light is ON for 2 seconds and then enter OFF after powering on again.																												
	Reset	Press "Reset" button, all parameters are same as factory settings																												
	Sensor Motion	Press "Sensor motion" button, the light quits from the normal on/off mode, and the sensor starts to work. (The latest setting stays in validity)																												
	DIM Test	Press "DIM Test" button, the 0-10V dimming works to test whether the 1-10Vdc dimming ports are connected properly. After 2s, it returns to the latest setting automatically.																												
	Override DH	Long Press 3s "Override DH" button to exit the Daylight priority mode or Daylight harvesting mode, and then enter the Daylight Sensor mode. (The latest setting stays in validity)																												
	DIM+ / DIM-	Short press "DIM+/DIM-" button to set occupancy light level, the brightness of the load light adjusts at 5% per unit. Long press "DIM+/DIM-" button to set occupancy light level, the brightness of the load light will continuously adjust. Dimming range: 50%-100%. (apply for normal on mode and sensor with daylight harvesting function)																												
	DH Mode	Long Press 3s to enter the Daylight priority function or Daylight harvesting function. Note: Short press "Disable" button will exit the Daylight priority mode and the Daylight Sensor is uncontrolled.																												
	Q1 / Q2 / Q3	<table><tr><th>Scene Options</th><th>Detection Area</th><th>Hold Time</th><th>Stand-by Period</th><th>Stand-by Dim Level</th><th>Daylight Sensor</th><th>Induction way</th></tr><tr><td>Q1</td><td>100%</td><td>5min</td><td>10min</td><td>10%</td><td>30Lux</td><td>Hs</td></tr><tr><td>Q2</td><td>100%</td><td>10min</td><td>30min</td><td>10%</td><td>Disable</td><td>Hs</td></tr><tr><td>Q3</td><td>100%</td><td>20min</td><td>30min</td><td>10%</td><td>Disable</td><td>Hs</td></tr></table>	Scene Options	Detection Area	Hold Time	Stand-by Period	Stand-by Dim Level	Daylight Sensor	Induction way	Q1	100%	5min	10min	10%	30Lux	Hs	Q2	100%	10min	30min	10%	Disable	Hs	Q3	100%	20min	30min	10%	Disable	Hs
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Q3	100%	20min	30min	10%	Disable	Hs																								
	HS / LS	Press the "TEST 2s" button can enter the test mode anytime. At test mode, the sensor parameters as below: Detection Area is 100%, Hold Time is 2s, Stand-by Dim Level is 10%, Stand-by Period is 0s, Daylight sensor is disabled. This function only for testing. Quit the test mode by pressing "RESET" or any other function buttons. This mode has no memory function. After powering on again, the parameters are restored to the last setting. Note: If the sensor have the wireless networking function, the button provides the functions is entering the distribution network mode.																												
	HS / LS	Press "HS" button to set the detection area to high sensitivity. Press "LS" button to set the detection area to low sensitivity. The Induction mode is adjusted at the setting detection area. Note: This button is invalid for low-mount sensor.																												
	Daylight Sensor	Set up Daylight Sensor: 5Lux/15Lux/30Lux/50Lux/100Lux/150Lux/Disable																												
	Stand-by period	Set up Stand-by period: 0s/10s/1min/3min/5min/10min/30min/+∞ Note: Stand-by period is not applicable to ON-OFF Sensor.																												
	Hold time	Set up Hold time: 5s/30s/1min/3min/5min/10min/20min/30min																												
	Stand-by dim level	Set up stand-by dim level: 10%/20%/30%/50% Note: Stand-by DIM Level is not applicable to ON-OFF Sensor.																												
	Detection Area	Set up Detection Area: 25%/50%/75%/100%																												
	Remote Distance	Toggle bottom can set the remote distance of remote control and sensor.																												

Unique design of infrared transmitting device

