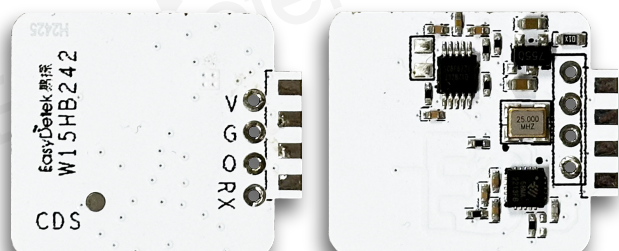


EDC15H-30N-02 Specification

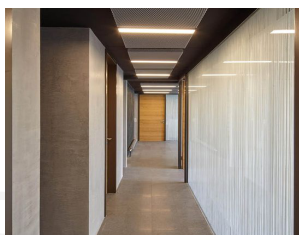
5.8GHz Basic Series Modules

Product Features

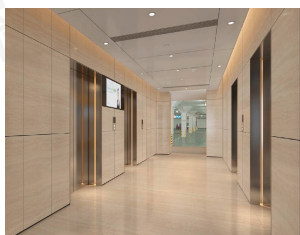


- Gold finger design for direct plug-in installation
- Triangle antenna embedded pcb, can open small hole to reveal, stable performance
- Meet the hanging height of 3m, sensing distance 4-6m

Application Scenarios/Products



corridors



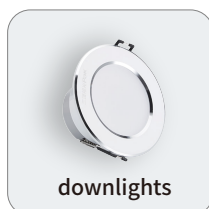
elevator shaft



flight of stairs



bulb



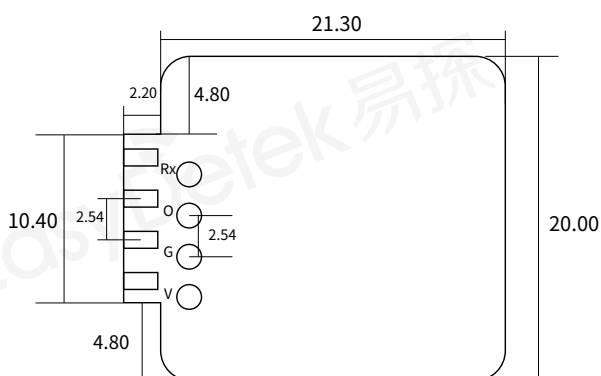
downlights



ceiling light

产品尺寸图

Size unit:mm



EDC15H-30N-02 Dimension Tolerance: ± 0.2
Welding hole of row of pins: $\phi 0.9$

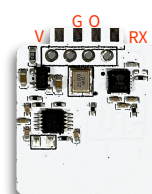
Pin Description

Pin	Description
Rx(Receive)	IO reserved port
O (Output)	IO-PWM
G (GND)	Groundings
V (VIN)	DC 7-12V

Schematic of positive and negative SMD pad pin definitions:



back



front

Electrical Parameters

Input Voltage	7-12V
Operating current	$18 \pm 2\text{mA}$
operating frequency	$5.8\text{GHz} \pm 75\text{MHz}$
3dB beam angle	97° (XZ plane) 99° (YZ plane)
Power consumption	<0.5W

Functional Parameters

Motion sensing radius ^①	4-6m
Hanging height	conventional 3m
Delay time	30s

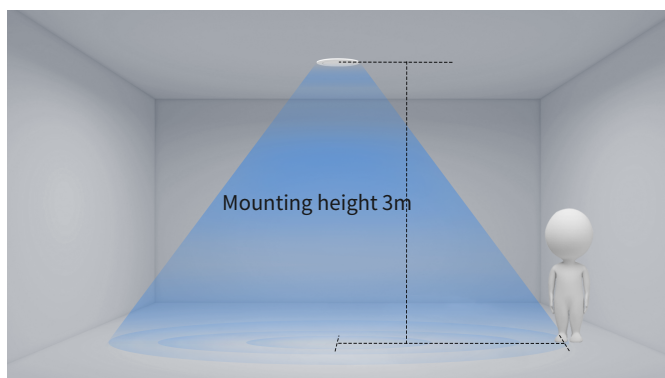
Output Parameter

Output voltage	5V
Output signal	IO/PWM

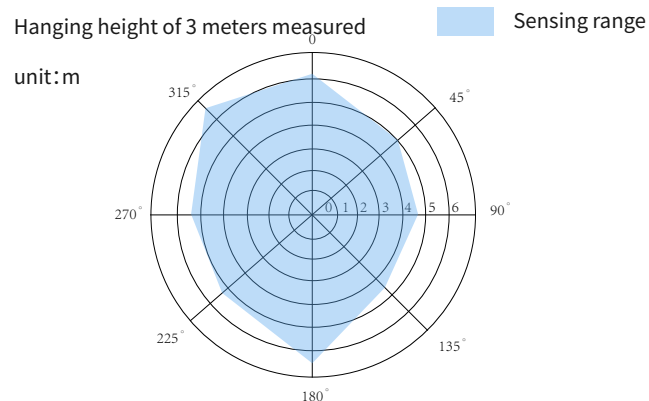
Environment & Lifespan

Operating temperature	-20~+85°C
Storage temperature	-20~+105°C

Detection Schematic



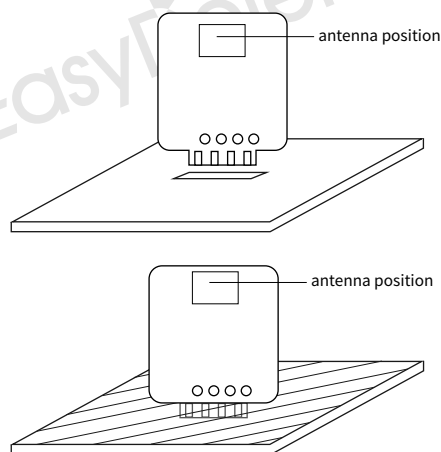
Schematic of sensing range^①



Remarks:

- ① The test distance range is based on the sensor hanging height of 3m, indoor installation environment test, the tester height 170cm, weight 65-75kg, walking speed 1m/s, different scene installation may cause the range of changes, to the actual test shall prevail.

Installation Diagram



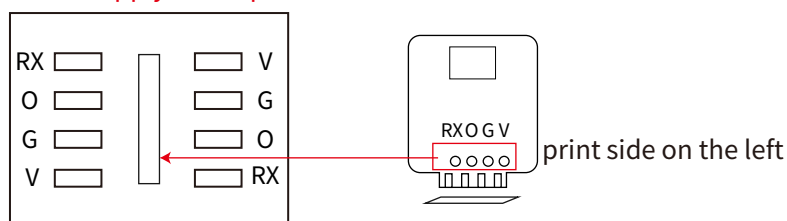
Installation:

Insert the module into the light board and solder to the SMD pads.

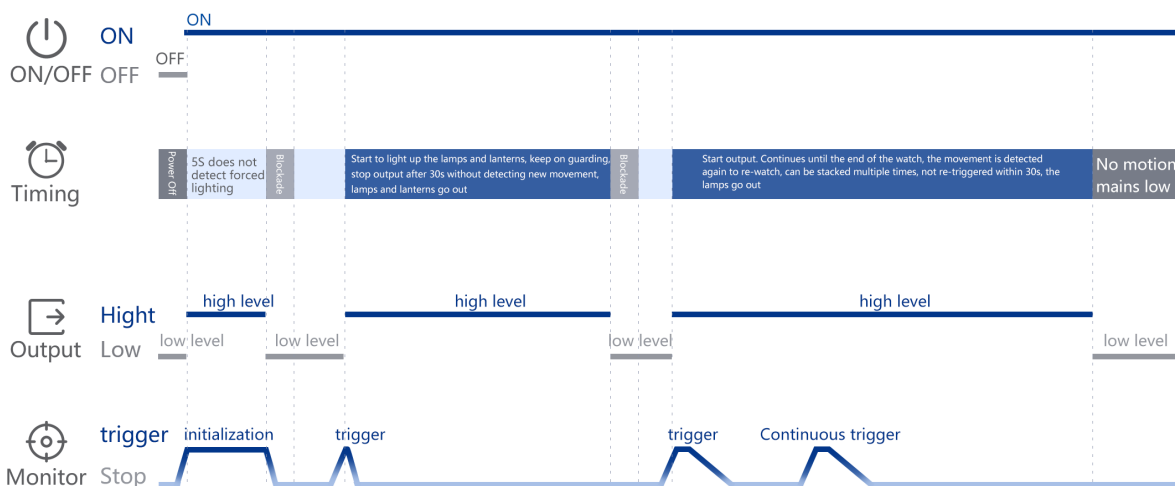
Installation Notes:

1. The module antenna must be mounted vertically, otherwise it will affect directivity.
2. Keep the module away from large components as possible, as this will obstruct antenna performance.
3. The module is recommended to be mounted as shown. If you require a different mounting method, please contact our technical support staff for consultation.

Power supply board pad schematic:



Timing Diagram



Functional Description



When the sensor detects a moving object, the light automatically turns on and the delay time is set.



After the delay time, if the sensor detects no moving object, the light will turn off.

Product Naming Law

ED	Frequency Band	Product Categories	Product Subdivision	Product Number	Delay/photosensitive	Serial number
ED	C	1	5	H	30N	02
EasyDetek	C 5.8GHz	1 Microwave sensor module	0 Ultra-low-power series	0-9, A-Z	Y Has light sensor	
	X 10.5GHz	2. Microwave radar switch	1 Flagship series		N no light sensor	
	Q 24GHz	3 Radar antenna	2 Short-distance series		P programmable	
	V 60GHz	4 MCU	3 Adjustable series			
	W 77GHz	5 Microwave power supply	4 External antenna series			
		6 IC	5 General Series			
		7 Other	6 To be defined			
		8 Networking	7 To be defined			
			8 Basic series			
			9 High altitude series			

Configuration Version Description

【material number】: EDC15H-30N-02
【PCB version number】: EDC15H-VB
【Software version number】: 0xD828, softwareID0x4941

Historical Revision Record

Version	Time	Description	Note
V1.0	2025-10-09	first edition	-

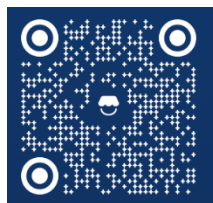
Precautions

1. When installing the radar sensor, if there is an aluminum substrate or other metal plate on the back, it should be raised to a certain height and kept at a distance of more than 5mm from the metal plane. It should not be close to or in contact with the metal plane; there should be no metal shielding or high-current cable covering in front of the radar sensor antenna, avoid facing the driving power supply, and try to stay away from the driving power supply's rectifier bridge, transformer, switch tube and other high-power devices.
2. The radar sensor has a good penetration effect on plastic and wood materials, but cannot penetrate metal or metal-coated materials. If the shell of the user's product is made of special materials such as glass, ceramic, carbon fiber, etc., please refer to the actual measured effect. If necessary, please contact Easydetek Technology's technical personnel for applicability debugging.
3. Excessive power ripple may interfere with the radar sensor and cause false alarms. It is recommended that the power supply ripple should be less than 100mV.
4. When multiple radar sensors are used in the same venue, the installation distance is too close, which may cause individual radar sensors to generate false alarms. It is recommended that the product installation distance is greater than 2m.
5. If the radar sensor is used together with a wireless communication module (NB, Bluetooth, WIFI, 2.4G module), the distance should be increased. It is recommended to keep a distance of more than 1m from high-power wireless communication devices such as routers and wireless hotspots during installation.
6. The light threshold of the radar sensor is the test value under the conditions of sunny environment, no shadow, and diffuse reflection of ambient light.
7. Easydetek Technology is committed to providing customers with high-quality and better experience radar sensors. When the product version is updated and iterated, no further notice will be given. If necessary, please contact our sales staff to obtain the latest product information.

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