深圳市易探科技有限公司
Shenzhen EasyDetek Technology Co.,Ltd

EasyDetek易探

EDC134 Specification

5.8GHz Adjustable Series Lighting Components

Product Features

- Dial code adjustable radar switch, sensing distance, delay time, photosensitive function
- CE-RED/FCC certified to meet new ERP requirements.
- Meet the hanging height of 3m, there are two gear sensing distance

Electrical Parameters

Input Voltage	5-12V
Operating Current	12.8-14.8mA
Output Voltage	3.3V±0.1V
Output Signal	IO/PWM

Functional Parameters

Near-gear movement sensing radius ①	2-4m
remote motion sensing radius ①	3-5m
Hanging height	Regular 3m
Delay time	Maximum 60s

Output Parameters

Operating frequency	5.8GHz±75MHz
3dB Beam Angle	97° (XZ plane) 99° (YZ plane)

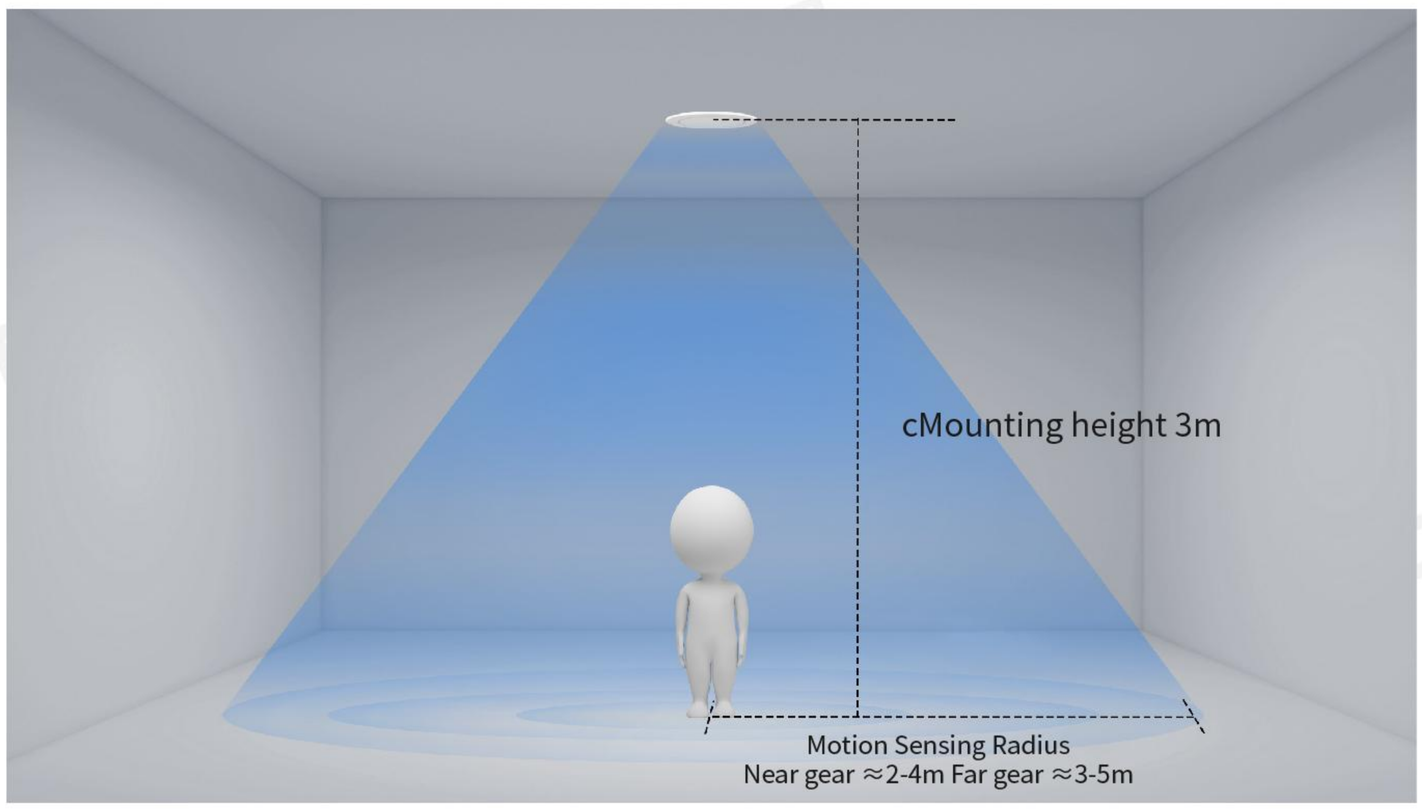
Environment & Lifespan

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

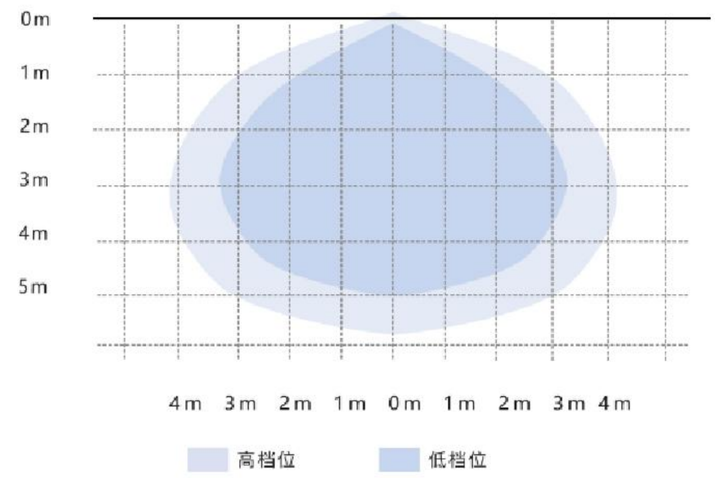
Remarks:

①The test distance range is based on the sensor hanging height of 3m, indoor installation environment test, the height of the test person 170cm, weight 65-75kg, walking speed of 1m/s, the test person's height 170cm, weight 65-75kg, walking speed 1m/s. Different scenarios may cause changes in the range of installation, subject to the actual test.

探测示意图



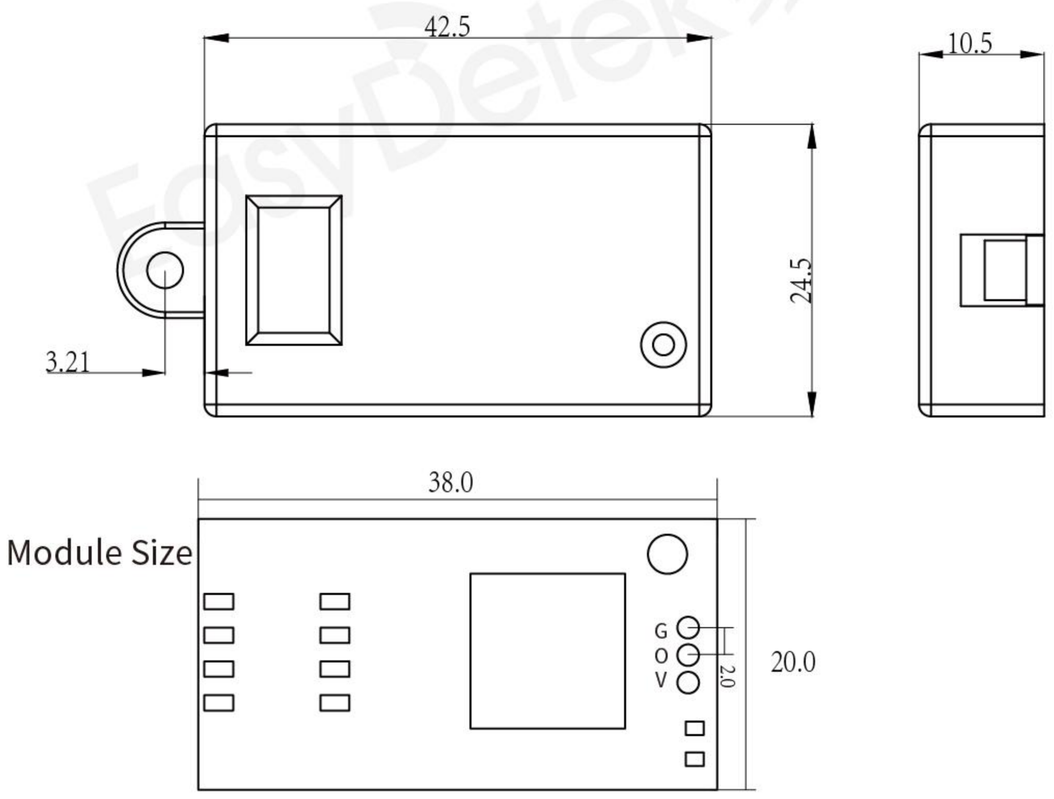
Radar Sensing Schematic



Motion Sensing Radius
Near gear ≈2-4m Far gear ≈3-5m

Dimension Drawing / Pinout

Size unit：mm



EDC134 Dimensional tolerance: ±0.2
Welding hole of row of pins：ϕ0.9

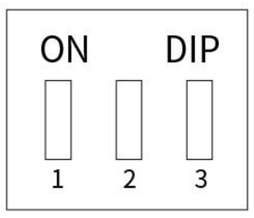
Pin Description

Pin	Description
V (VIN)	Power supply 5-12V
O (Output)	Output signal
G (GND)	Groundings

Product Dialing Chart

four-digit dial code

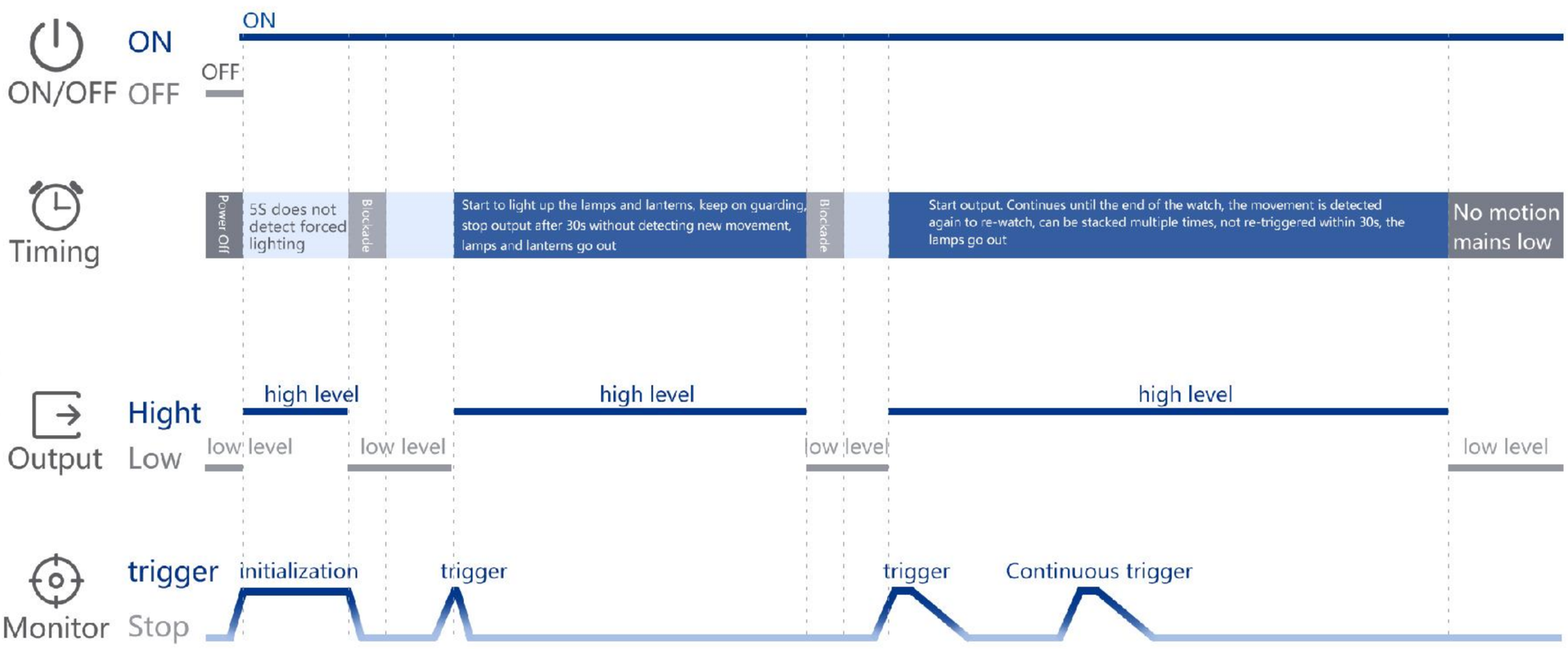
1 radar		2 motion sensing distance		3 delay		4 photosensitive	
ON	Radar On	ON	2-4m	ON	30s	ON	photosensitive on
OFF	Radar Off	OFF	3-5m	OFF	60s	OFF	photosensitive off



three-digit dial code

1 radar		2 motion sensing distance		3 delay	
ON	Radar On	ON	2-4m	ON	30s
OFF	Radar Off	OFF	3-5m	OFF	60s

Timing Diagram



This is an example of the product dialing code table: 1-ON 2-ON 3-ON 4-ON.

Application Scenarios/Products

corridors

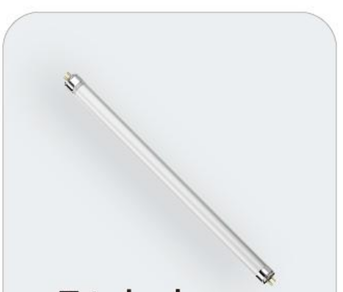
elevator shaft

flight of stairs

bulb

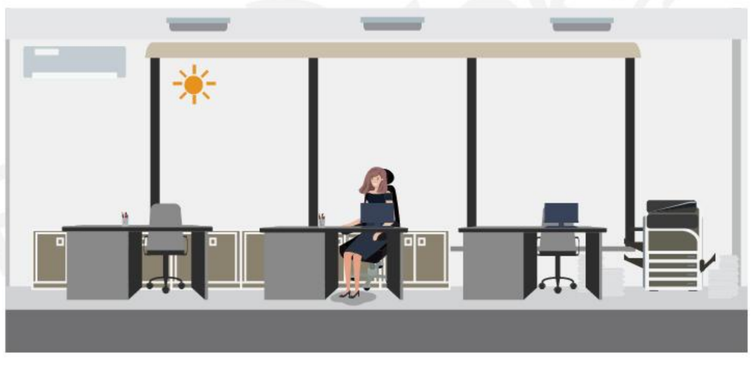
downlights

ceiling lamp

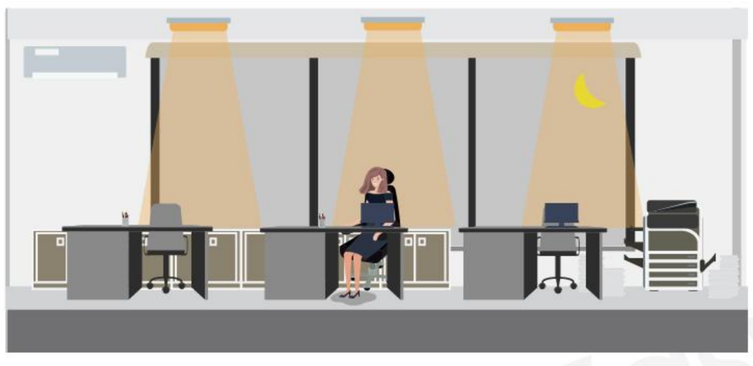


T-tube lamp

Functional Description



After initialization is complete, when the ambient light is sufficient, the sensor detects moving objects and the light will not automatically turn on



When the ambient light is insufficient, the sensor detects moving objects and the light automatically lights up

The moving object leaves, and after a preset delay, t he light will automatically turn off

Product Naming Law

ED	Frequency Band	Product Categories	Product Subdivision	Product Number	Delay Time	Serial number
ED	C	1	3	4	Y	
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

【hardware】:

【software】:

Historical Revision Record

Version	Time	Description
V1.0	2024-07-06	First edition
V1.1	2024-11-15	Update product parameters

Precautions

1. When installing the product, it is recommended to maintain a distance of 5-12mm between the antenna board and the metal plane, and not to tightly adhere or touch the metal plane.
2. The product has good penetration effect on plastic and wood materials. It is recommended not to install metal, glass, or ceramic in front of the antenna to avoid affecting the actual sensing effect.
3. Please use a power supply with low ripple to avoid sensor interference and false alarms. It is recommended to ensure that the power supply ripple is within 50mV-100V.
4. When multiple radar sensors are applied in the same site, it is recommended that the installation distance of the product be greater than 2m. Installing too close may result in occasional false alarms from individual sensors.
5. The radiation surface of the antenna should avoid being covered by high current circuits to prevent interference with the normal radiation of the antenna, leading to false alarms or changes in the sensing range.
6. When microwave sensors are used in conjunction with wireless communication modules (NB, Bluetooth, WIFI, 2.4G modules), they should be spaced apart. It is recommended to maintain a distance of at least 1m from high-power wireless communication devices such as routers and wireless hotspots during installation.
7. The light sensitivity threshold is the test value under clear weather conditions, no shadows, and diffuse reflection of ambient light.
8. The antenna surface of microwave sensors should avoid facing directly towards the driving power supply, and should also be kept as far away as possible from high-power components such as rectifier bridges, transformers, and switching tubes of the driving power supply to avoid false alarms.
9. EasyDetek Technology is committed to providing customers with high-quality and better experience radar sensors. Product version updates and iterations will not be notified separately.