EDQ286

产品描述

- 24GHz 弱电干接点传感器
- 12-24V DC 输入，干接点/脉冲信号输出
- 小尺寸，内嵌式独立安装（开孔Φ45mm）
- 采用人体探测技术，支持移动、微动和存在探测
- 24G 强抗干扰天线，可有效抵抗 wifi、蓝牙等各种无线信号干扰

电性能

Input Voltage	12-24Vdc
Operating current	DC 12V-75mA max.　　DC 24V-40mA max.
Standby power consumption	≤0.6W @24V DC
Output mode	Normally open/closed dry contact and pulse signal selectable
Dry contact load	40V / 1.5A MAX
Transmit Frequency	24-24.25GHz
Transmit power	≤10dBm
Optical threshold	5lux、15lux、30lux、50lux、100lux、150lux、disable
3dB beam angle	80°（XZ plane）　80°（YZ plane）
Motion Sensing Distance	1.5-5.5m
Presence detection distance	1-4.5m
Delay time	10s~30min　（remote control adjustable）
Operating temperature	-30~﹢60℃
Storage temperature	-35~﹢85℃

Remarks:

1, the test distance range is based on the sensor hanging height 3m, indoor environment test, tester height 170cm, weight 65-75kg, walking speed 1m/s (1 second 2 steps), different scene installation may cause the range of changes to the actual test shall prevail;

2, due to the spectral characteristics of the photosensitive device, the threshold is unified in the natural light conditions for testing;

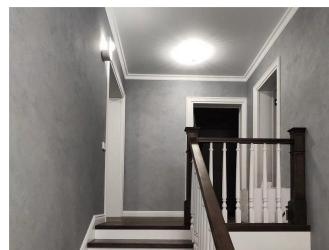## Typical Application Products
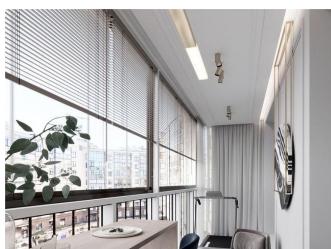
Ceiling Mount, Scene

office

front door

staircases

verandahs

cellar

Indicator status

1. Initialisation: Default normally open dry contact mode, the device is powered on, the LED indicator is always on for 5s, the dry contact is closed, after initialisation the LED indicator goes out and the dry contact is disconnected.

Normally closed dry contact mode, the device is powered on, the LED indicator is always on for 5s, the dry contact is disconnected, after initialisation, the LED indicator goes out and the dry contact is closed.

2. Working mode: there are two working modes: dry contact (normally open, normally closed optional) and pulse output mode.

Dry contact: normally open/closed optional, default normally open, switch through the remote control key QS3;
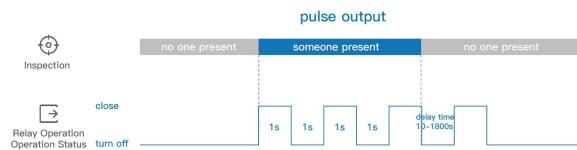
Pulse output: pulse frequency is 0.5Hz, i.e. under occupied state, the optocoupler continuously outputs 1s high level and 1s low level pulse signal. It is switched by QS2 of the remote control.

3. Indicator status: If a person is detected, the LED indicator flashes slowly once, and the dry contact is closed at this time. If no person is detected after the delay, the dry contact is disconnected.
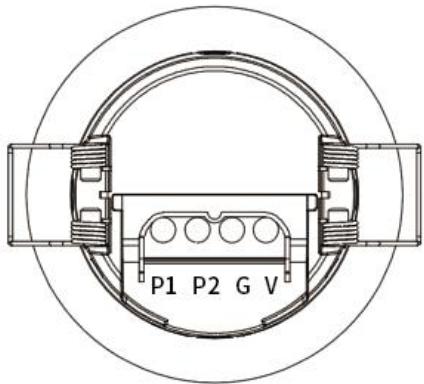
Note: When the movement is triggered several times within 5 seconds, the indicator light will flash only once.
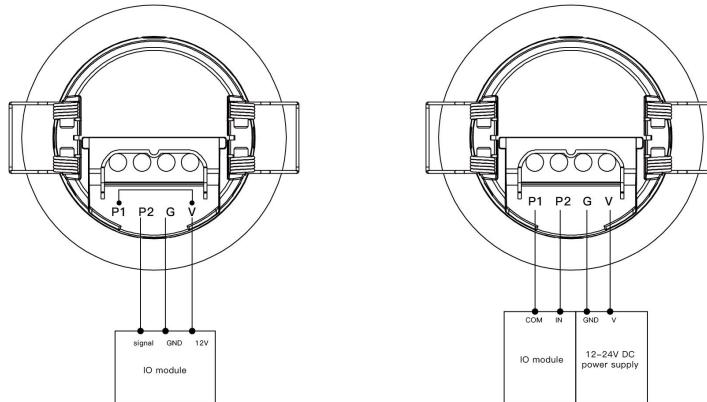
Dry Contact Output Schematic

pulse output

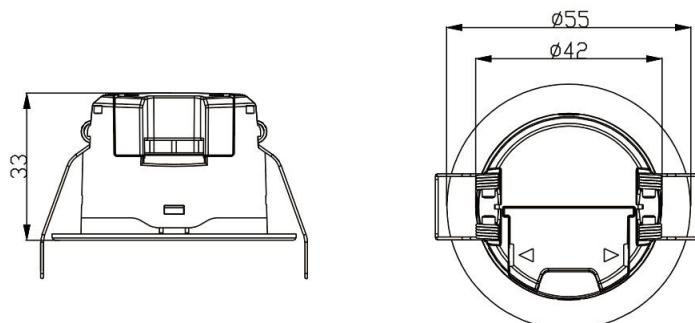| Inspection | no one present | someone present | no one present |

Relay Operation
Operation Status

close

turn off

1s | 1s | 1s | 1s | delay time 10~1800s

Wiring Description

EDQ286   Wiring Description

PIN	Description
P1	
P2	Dry contact (non-polarized)
G	GND
V	DC 12-24V supply

P1 P2 G V

Wiring Diagram

P1 P2 G V

signal GND 12V

IO module

P1 P2 G V

COM IN GND V

IO module | 12-24V DC power supply

Product size chart

33

Ø55
Ø42

EDQ286 Dimension Drawing Unit: (mm)

⫸ Installation Instructions

1. Use a 45-mm hole opener to pre-drill 45-mm holes in the ceiling.	2. Connect the reserved wires with the sensor connection end, installed and operated by the master electrician	3. Verticalize the spring clips at both ends of the product and install them in the holes	4. Put into the spring buckle on both sides of the product, you can turn on the power to use
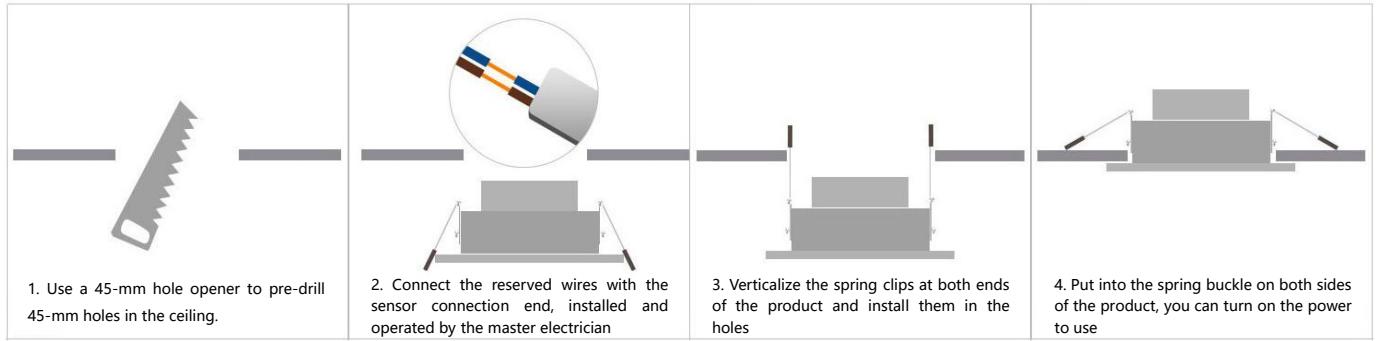
⚠ NOTE: Power must be turned off before installation or removal.

⫸ function declaration
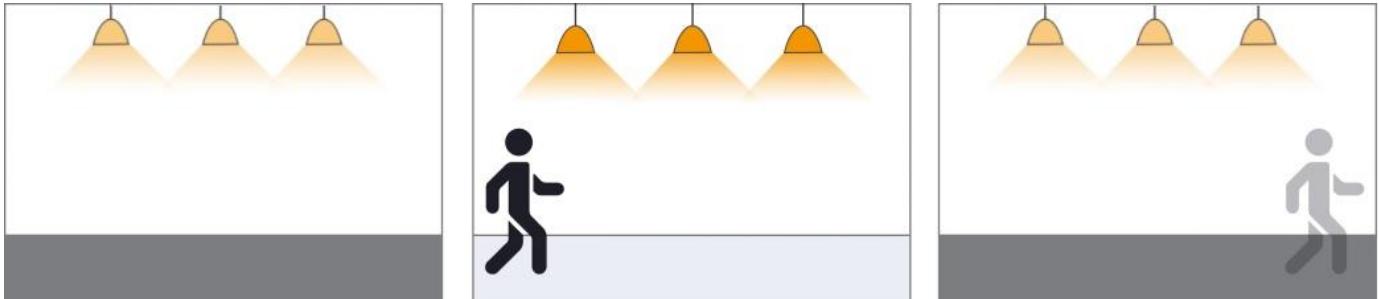
If the moving object cannot be detected, the lamp is turned off	When the sensor detects a moving object, the light will automatically turn on and enter the setting delay time. If the human body exists or a moving object is detected, the delay will be extended	After the delay time, the sensor can not detect the moving object or the presence of the living body, and return to the closed state

The sensor detects human body movement, micro-movement and presence signals, realizing the detection of human presence in non-sleeping state.

Movement signals: the human body in the detection area in the walking state or limb movement amplitude is relatively large signal.

Micro-motion signals: the human body in the detection area in a standing or seated state, hands or shoulders to produce a slight swaying micro-amplitude movement signals, such as: the body leaning forward, backward, limb swaying, shaking his head, typing, playing the phone and other micro-amplitude behavioral actions.

Existence of signals: the human body in a standing or sitting state, the detection of human respiratory vital signs caused by (abdominal and thoracic cavity expansion behavior).

⫸ Precautions

1, the product should be installed with the exhaust fan and air conditioning vents to maintain a distance of more than 50CM, exhaust fans, air conditioning vents such equipment work generated by

Vibration will form a false trigger on the sensor detection, long time can not enter no one. Installation also need to avoid outside people or things caused by vibration when the activities of the region.

2, the product has a certain degree of penetration of thin wood, glass material, the installation of the distribution point should take into account these two factors. At the same time to avoid the sensor in front of a large area of metal, metal will reflect microwaves.

Area of metal, metal will reflect microwaves, may lead to sensor self-excitation;

3, the sensor detection range, the decorative surface has a large area of glass and smooth tiles, electromagnetic wave reflection will be strengthened, should be appropriate according to the size of the space to reduce the sensing

Should be appropriately adjusted according to the size of the space to reduce the sensing range.

4, a number of sensors in the same site application, recommended product installation spacing greater than 2.5 m. Installation distance is too close may trigger individual cycle false alarms;

5, microwave sensors emit electromagnetic waves in the actual application of the environment, the different reflectivity of the obstacles will bring about different sensing range, which is a normal phenomenon;

For example, in the corridor and a wide room, the sensing distance will have a slight difference.

6, product specifications, parameters may be upgraded version without prior notice.

◤◤ Product naming rules

ED ED	frequency range	Product categories	Product subdivision category	identification of product	characteristic -	Time delay time	serial number
	Q	2	8	6			
	☐S 3GHz	☐1. Microwave sensor	☐0 Ultra Low power Series	0-9, A-Z	☐A VOG (Default)	☑Y has a sensitive light	
	☐F 6GHz	☑2. Microwave induction switch	☐1 Flagship series		☐B VGO	☐N no light sensitivity	
	☐C 5.8GHz	☐3 Radar antenna	☐2. Short Distance Series			☐P programmable	
	☑Q 24GHz	☐4 Single chip machine	☐3 Adjustable series				
	☐V 60GHz	☐5 Microwave power supply	☐4. External antenna series				
	☐W 77GHz	☐6 IC	☐5 General series				
	☐X 10.5GHz	☐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 records

Edition	Time	Description	remarks
V1.0	2024-07-03	First Edition	-