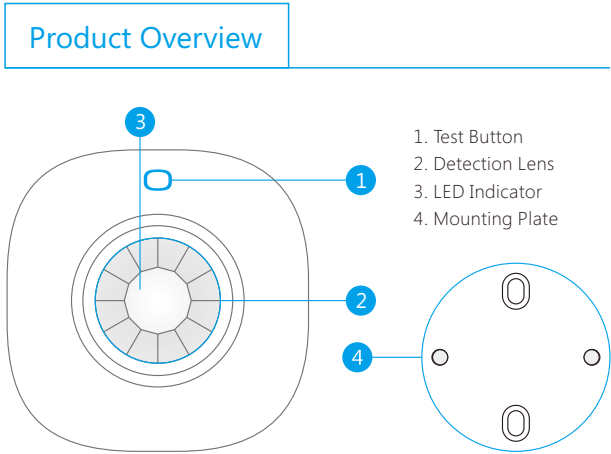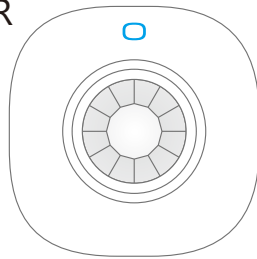# ERA

Ceiling-Mounted PIR Motion Sensor

P700

Instruction Manual

Introduction

The Sensor works based on detecting human body's infrared spectrum. When human moves within the scope, the Sensor receives the signal and inputs it into microprocessor after magnification. Microprocessor continues to sample infrared signal and send wireless signal to wireless control panel after calculating, thus to form a security system. The product can be applied in banks, warehouses and homes etc.

Features

Accurate Detection
360˚ detection, no dead angle
Automatic temperature compensation and anti-air turbulence technology

False Alarm Prevention
Digital dual-core fuzzy logic infrared control processing technology
Effectively identify interference signals from body movement signals through intelligent analysis
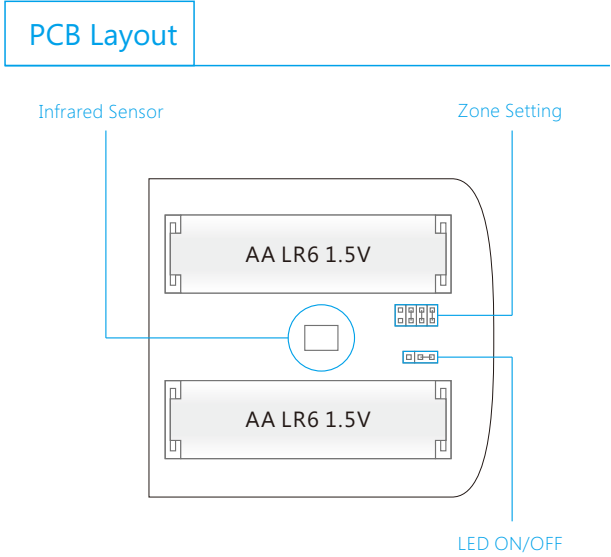
Space-saving
Ceiling-mounted, not much space occupation
Integrated to home decoration, suitable for luxury premises

Energy-saving
Featured energy-saving mode enables 1 year standby

Product Overview

1. Test Button
2. Detection Lens
3. LED Indicator
4. Mounting Plate

PCB Layout

Infrared Sensor   Zone Setting

AA LR6 1.5V

AA LR6 1.5V

LED ON/OFF

Infrared Sensor: Detecting human body's infrared spectrum. Don't touch the surface by hand and keep it clean.

LED Indication
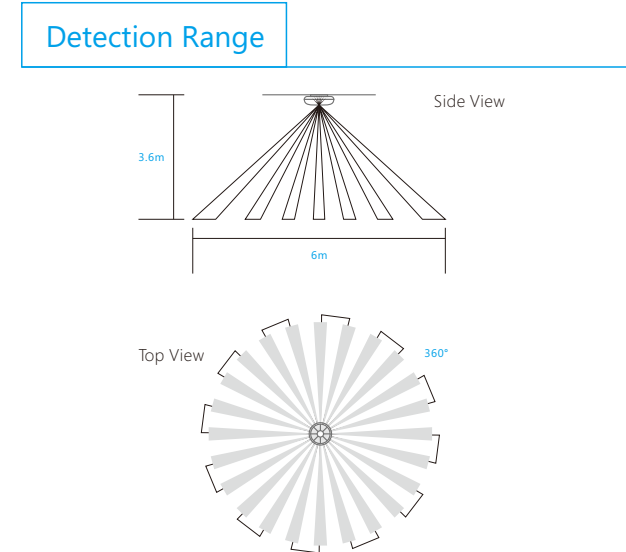
The LED indicator can be turned on or off by setting jumpers. See "PCB Layout" above.

Flash continuously: Under self-testing state
Flash once: Intruder is detected
Flash twice: Self-testing is finished, enters working mode
Flash once every 3 seconds: Undervoltage indication, please change the batteries immediately.

Detection Range

Side View

3.6m

6m

Top View   360°

Usage

Remove the battery activation strip to activate batteries. It will enter working state after one-minute's self-testing.

Mode Setting

Testing mode: Press test button, the Sensor enters testing mode and detects once every 10 seconds. After 3 minutes, the LED flashes twice, the sensor enters the power saving mode.
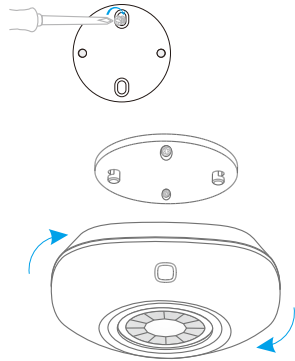
Power-Saving Mode: In working state, if the Sensor is triggered twice within 3 minutes, it will enter sleeping mode to save power. After no movement within next 3 minutes, the Sensor goes back to the working state.

Installation & Notice

Choose a suitable position and fix the mounting plate on the ceiling with screws. Fasten the Sensor on the mounting plate in a clockwise direction. It is suggested to mount it at the height of 2.5-5 meters from the ground.
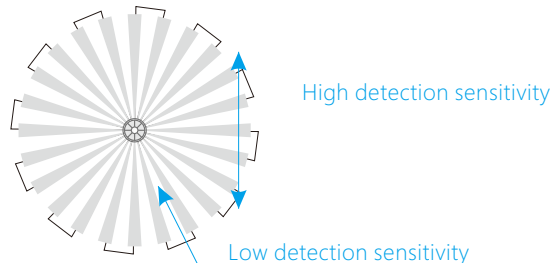
Keep the Sensor away from air conditioner, electronic fan, refrigerator, oven, heater or any other objects which will cause fast temperature changing.

Avoid mounting it in direct sunlight or any objects blocking the lens, so as not to influence the detection effect.

Testing (Walk Test)

After installation, power on the Sensor After self-testing for 1 minute, press the test button, walk in the scope by crossing the infrared spectrum (see below diagram), and watch the LED indicator to make sure it is working. The LED indicator will flash once when body movement is detected.

High detection sensitivity

Low detection sensitivity

Connect with the Control Panel

When the control panel is in connecting state, press the test button twice to send wireless signal. One beep is heard after panel receives signal, which means successful connection.

Arm the system, trigger the Sensor again. The panel will alarm immediately. This indicates the Sensor has successfully connected with the panel.

Specifications

Power Supply:
DC 3V (AA LR6 1.5V Battery x 2pcs)

Static Current:
< 13uA

Alarm Current:
< 15mA

Installation Height:
2.5-6m

Detection Scope:
Dia. 6m (when installation height is 3.6m)

Transmitting Distance:
< 80m (in open area)

Radio Frequency:
433.92MHz

Housing Material:
ABS Plastic

Operation Condition
Temperature: 0°C~+55°C
Relative Humidity: <80% (non-condensing)

Detector Dimensions (L x W x H):
90 x 90 x 36.8mm

Mounting Plate Dimensions (L x W x H):
56 x 56 x 8mm