EXPERT4HOUSE CL-40S Dual Element Pir Motion Detector Installation Guide

Contents

EXPERT4HOUSE CL-40S Dual Element Pir Motion Detector

Specifications

- Advanced and stable circuit design
- Low rate of failure alarms and false alarm
- Movement detection with temperature compensation
- Pet immunity below 10kg
- Reduced false alarms during hot air currents and temperature changes
- Enhanced PIR detection compared to normal PIR detectors

Product Usage Instructions

Installation Guide

Select the best installation point for PIR technologies. Keep the detector away from doors, windows, running machines, and heat sources. Ensure stability of the installation base and avoid high-pressure power sources or direct sunlight.

Wall Fastening

A. Press out the bottom cover while holding the product, then open the detector by contrarotating the covers. B. Choose between a wall mount and a ceiling mount for installation.

Wire Up the Terminal

Connect the +12V and -12V terminals to the DC power supply, ALARM to the zone input of the control panel (N.C/N.O), and TAMPER to the 24-hour N.C. loop of the control panel.

Alarm Output Selector

The alarm output can be set to N.O. by removing the jumper from N.C/N.O selector. N.O. output can be used to

activate VCR or CCTV systems.

Close the External Covers

Align the indentation on the upper cover with that on the lower cover, then press and rotate the covers clockwise to close them.

Testing and Pulse Set

Conduct a walk test at least once a year to verify the correct operation of the detector. Use 2P as the maximum pulse count for long-range and curtain lenses, avoiding 3P for distances above 12m.

FAQ

- **Q:** How often should I conduct a walk test for the detector?
- **A:** It is recommended to conduct a walk test at least once a year to verify the correct operation.
- **Q**: What is the maximum pulse count recommended for long-range and curtain lenses?
- **A:** The maximum pulse count recommended is 2P. It is not advised to select 3P for distances above 12m.
- **Q**: How can I reduce false alarms in hostile environments?
- **A**: For maximum false alarm protection in hostile environments, use the appropriate pulse count and ensure proper installation away from interference sources.

INTRODUCTION

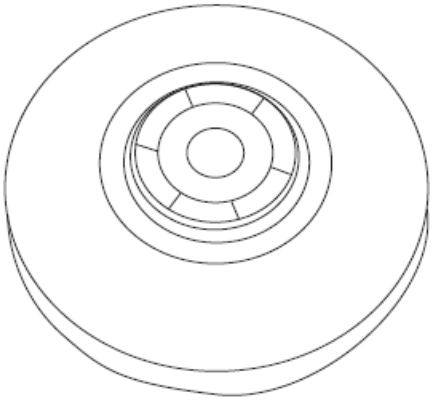


Figure 1

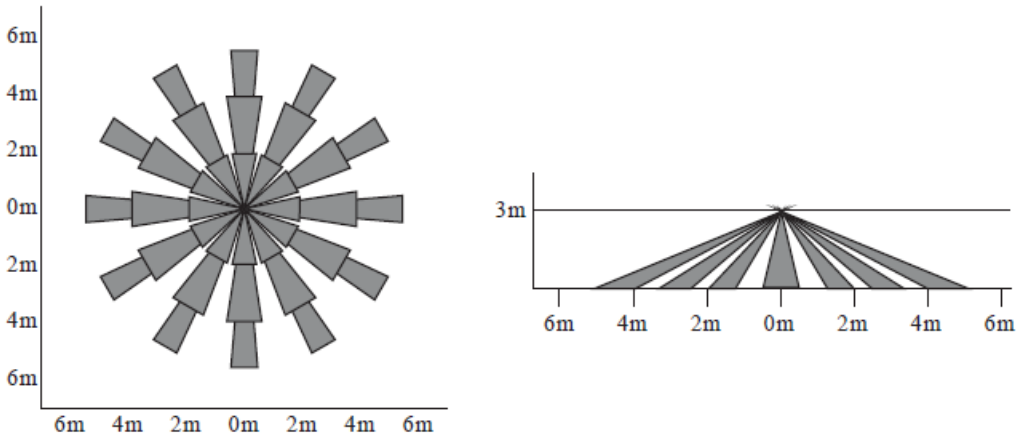
It Adopts an advanced and stable circuit design with, a very low rate of failure alarms and false alarms; it can realize complete movement detection and actually temperature compensation. It adopts a unique pet variable calculation for real pet immunity below 10kg. It can reduce its false alarm greatly during hot air currents, moving animals and great changes in temperatures. Its PIR detection than other normal PIR detectors on the market.

BRIEF INTRODUCTION

- Selectable detection sensitivity
- Alternative Led OFF
- Anti-white light
- 37 beams Fresnel lens with down-view window on its 4 planes
- Total view:360° Monitoring scale:12m

- Dual-layer structure temperature compensation tech which has solved the problem of interference from normal temperature

SPECIFICATIONS



TOP VIEW SIDE VIEW

Figure 2

- **Power supply:**9-16VDC
- **Current**:N.C:5mA,NO:15mA 12VDC
- **Install high**:1.5m-3m
- **Coverage:**12m*12m 360°
- **Alarm time**:1.5-2.5s
- **Anti RFI/EMI:**0.1-500MHz/3V/m
- **Anti-white light**:>10000LUX
- **Alarm output:**NO/NC 200mA/24V
- **Temperature**:-10℃/+55℃
- **Humidity(RH)**:95%
- **Sensitivity:** 3P /2P Select
- **Detect speed:**0.3m/s to 1.5m/s
- **Dimensions(L*H)**:115mm*32mm

INSTALLATION GUIDE

Select the best installation point fit for PIR technologies. Put it in the selected place and keep it away from the door, window, running machine or heat sources.

Figure 3

WALL FASTENING

- Hold the product by hand, press out the bottom cover by one hand while the upper cover by the other hand, contra rotate the covers to open the detector

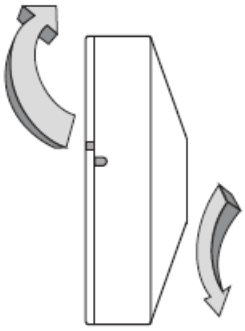


Figure 4

- Wall mount and ceiling mount for installation.

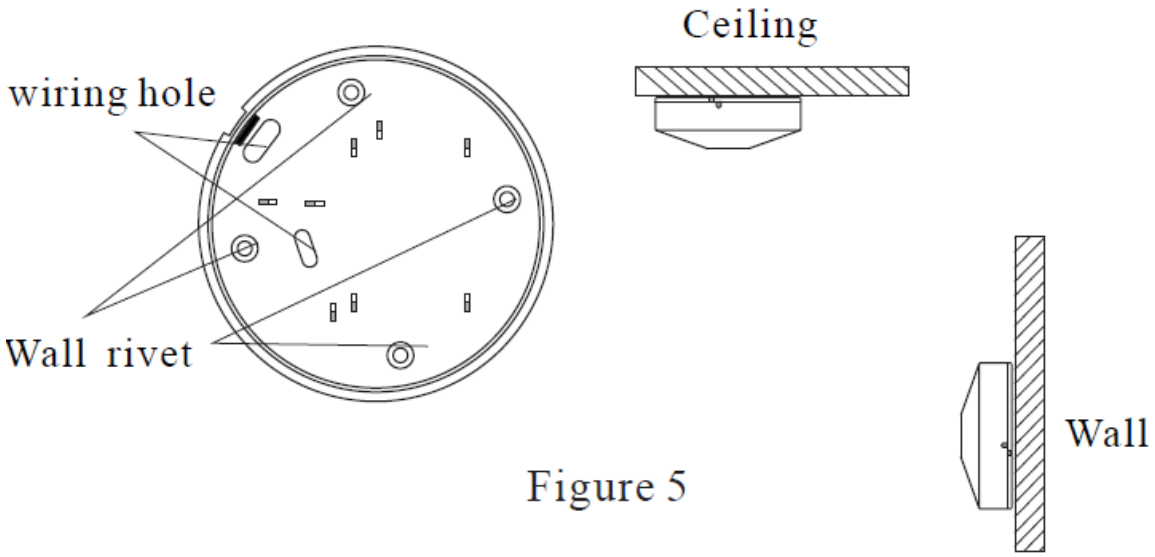


Figure 5

WIRE UP THE TERMINAL

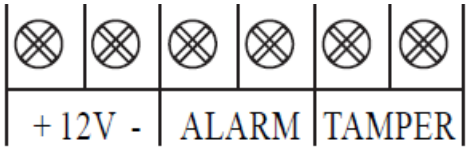


Figure 6

- 12V + : 9 16V DC power supply
- ALARM: Zone input of control panel (N.C/N.O)
- TAMPER: 24 hours N.C. loop of the control panel

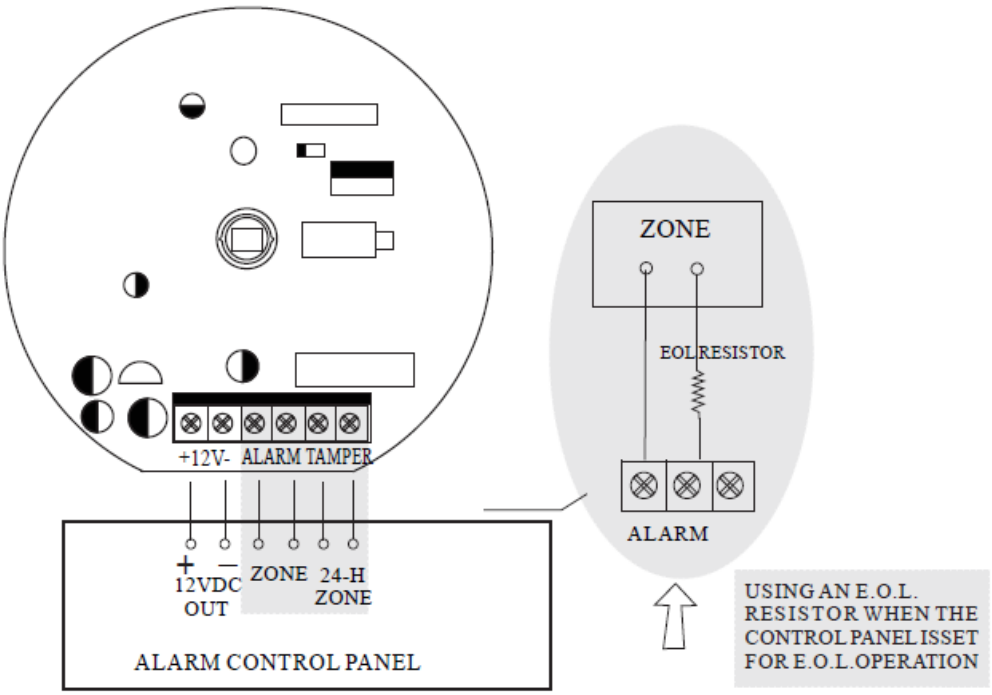


Figure 7

ALARM OUTPUT SELECTOR

The alarm output can be charged to N.O. by removing the jumper from N.C/N.O selector. N.O. output can be applied to activate the VCR of CCTV systems or other equipment.

Figure 8

CLOSE THC EXTERNAL COVERS

Please face the position with indentation on the upper cover to that on the lower cover, press and rotate the covers clockwise to close it

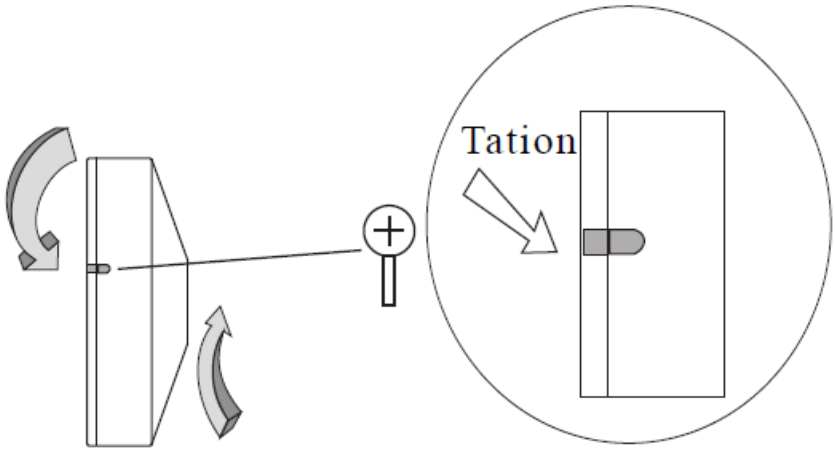


Figure 9

TESTING and Pulse Set

The Sensor has an intelligent pulse count that reduces the possibility of false alarms caused by environmental and power line inter-ference. The pulse count can be set to count 2 or 3 pulses by placing the jumper head on the corresponding pins. An alarm signal will only be sent when the selected pulses are generated within a delay time of 20 seconds. SEC-TEC's intelligent pulse count circuitry analyzes the width difference of the pulse signal. When human motion is detected a subsequent pulse s signal will override the pulse count setting and generate the alarm signal without any delay.

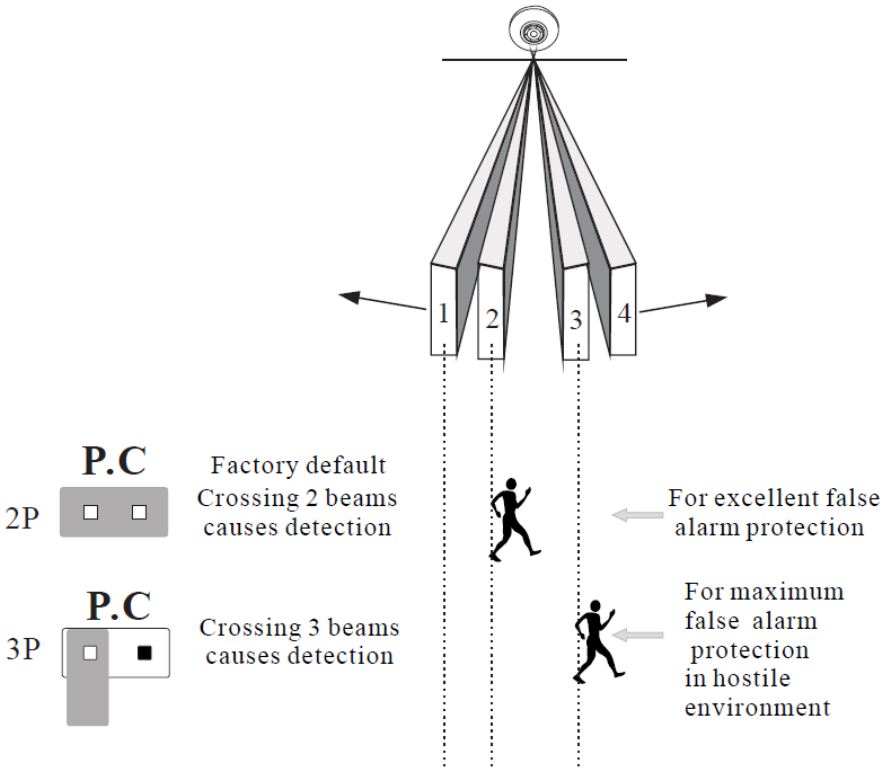


Figure 10

Note: Verify the correct operation of the detector by conducting a walk test at least once a year.

Note: The maximum pulse count for the long-range and curtain lenses is 2P. It is not recommended to select 3P for disadvantages above 12m

NOTES AND WARNINGS

Even the most sophisticated detectors can sometimes be defeated or may fail to warn due to: DC power failure/improper connection, malicious masking of the lens,tampering with the optical system, decreased sensitivity in ambient temperatures near that of the human body and unexpected failure of a component part. The above list includes the most common reasons for failure and recommended that the detector and the entire alarm system be checked weekly, to ensure proper performance.
An alarm system should not be regarded as a substitute for insurance. Home & property owners or renters should be prudent enough to continue insuring their lives & property, even though they are protected by an alarm system. This device has been tested and found to comply with the limits for a Class B digital device, pursuant to harmful interference in residential installations. This equipment generates, uses and can radiate radio frequency energy and,if not installed and used in accordance with the instructions, may cause harmful in-terference to radio and television reception. However, there is no guarantee that interference will not occur in a particular installation.If this device does cause such interference, which can be verified by turning the device off and on, the user is encouraged to eliminate the interference by one or more of the following measures:

- Increase the distance between the device and the receiver.
- Connect the device to an outlet on a circuit different from the one that supplies power to the receiver.
- Consult the dealer or an experienced radio/TV technician.

WARNING! Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user s authority to operate the equipment

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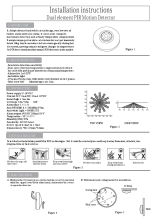
Documents / Resources

	**EXPERT4HOUSE CL-40S Dual Element Pir Motion Detector** [pdf] Installation Guide CL-40S, CL-40S Dual Element Pir Motion Detector, Dual Element Pir Motion Detector, Element Pir Motion Detector, Pir Motion Detector, Motion Detector, Detector

References

- **User Manual**