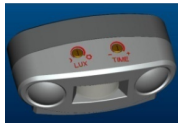
A&R Technologies Ltd

Installation manual

Curtain PIR with LED lighting （ PL-10）

Product Description

PL-10 is a security and lighting sensor which generates security alarm signal at the same time turns on the LED light. It can be installed at the entrance, passage, room & stair etc... for lighting purpose. Ambient light level & timer are adjustable for different needs.



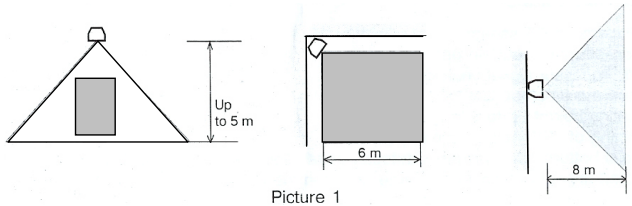
1. Specification Highlight

- Dual elements pyro detector
- For both security and lighting application
- Adjustable mounting angle
- Tamper Switch Included

2. Technical Specification

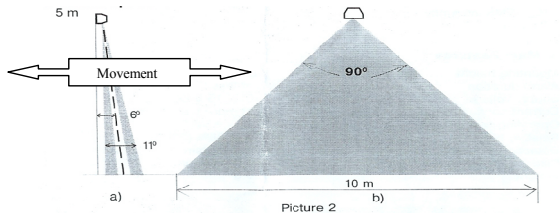
- Detection Pattern: Curtain
- Max. Mounting Height: 5 meter
- Alarm Duration: More than 5 second
- Input Voltage: 10-15VDC
- LED Brightness: 5 Lux at 2 meter distance
- Ambient Light Level Adjustment: 10 lux – infinite
- Timer Adjustment: from 5 sec to 5 min
- Operating Current: LED (65mA), Standby (8mA)
- Operating Temp.: -30C to +50C
- Operating Humidity: 95% at 25C
- Dimension: 90 x 48 x 40 mms
- Weight: 60g

3. Mounting position and detection pattern



Picture 1

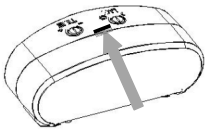
4. Detection Pattern



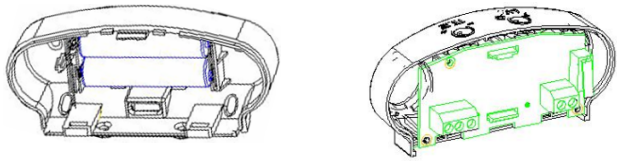
Picture 2

5. Installation Instruction

5.1 Press at the spot as arrow indicates and pull out the back cover.



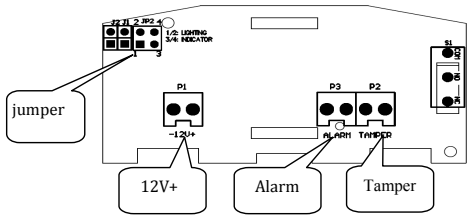
5.2 Mount the back cover onto the wall/ceiling by screws at the desired location.



5.3 Connect the wire according to the figure below:

- Tamper Signal
- Alarm Signal
- Power (12V)

For LED lighting only – connect wires to 12 V terminals. Refer Section 7 for jumper connection.



5.4 Close the housing after wiring is completed.

6. Lighting Application

6.1 Jumper Setting：

Jumper#	Function
1 & 2	LED Lighting On/Off

6.2 Ambient Light / Timer Setting

LUX Level

Light turns on at dark when motion detected

Light turn on whenever motion is detected

TIME: 5 seconds to 5 minute

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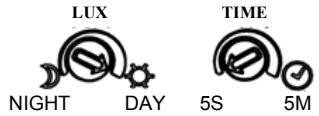

7. Walk test procedures

7.1:

(a) Short circuit jumper #1 & #2.

(b) Power up the sensor and the LED will turn on for 2 min.

(c) Walk test within the detection range at 0.5 to 1 m/s speed. LED Indicator will turn on to indicate alarm condition.

Note： Set LUX to desired level to turn on light when motion is detected.

7.2 Sensor should be installed in open area away from trees, curtain & and possible moving object to avoid false alarm.

Rev 1.0