PIR32/PIR33
INSTALLATION AND OPERATING INSTRUCTIONS

Thank you for choosing our PIR sensor. This sensor is suitable for INDOOR use only. Please read this instruction before installation and keep it for future reference.

CAUTION: Never modify the unit. There is no any serviceable part inside for end user. Not suitable to use with dimmer switches. Please install the sensor in accordance with I.E.C. Wiring Regulations. IF YOU HAVE PROBLEM, WE RECOMMEND YOU TO CONSULT A QUALIFIED ELECTRICIAN.

■ POSITIONING THE UNIT

When selecting the mounting position, please take the following points into account:

1. The sensor is designed for optimum performance to be mounted in house ceiling (see Figure 2)
2. Avoid pointing at or positioning close to heat sources such as heater or heat extraction units, which may cause false triggering.
3. Avoid pointing at bright light since unit will not act when you set Lux control level to dark ($\mathcal{D}$).
4. Avoid mounting at strong electromagnetic disturbance environment.

■ FITTING THE UNIT

Before any electrical work, ensure mains supply cables are isolated by switching off and removing the relevant fuse. (See Figure 1)

1. Drill a circle hole of around 2.5-inch (63.5mm) diameter in the ceiling where your are to mount the sensor
2. Remove the terminal cover "1" and unscrew the wire holder "2"
3. Connect the main power wires and loading wires to the copper terminals (see Figure 1)

Figure 1

Figure 2 — Detection Area
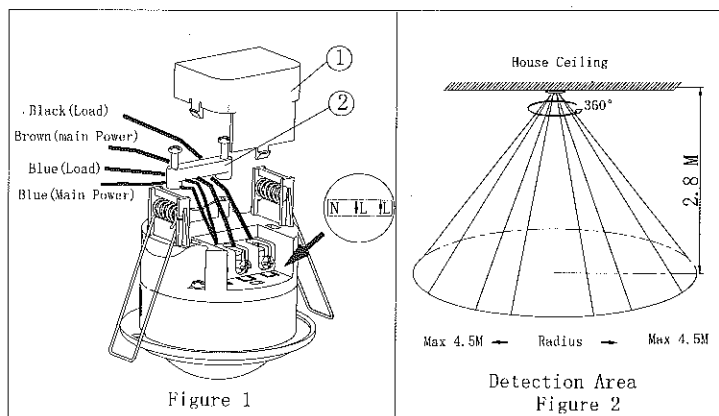
4. Fix the wires by re-screwing the wire holder's screw. Fix the terminal cover back
5. Press the side springs up, hold them and mount the sensor into the ceiling hole (see Figure 3)

Figure 3

Fig. 4(A) Good

Fig. 4(B) Not Good
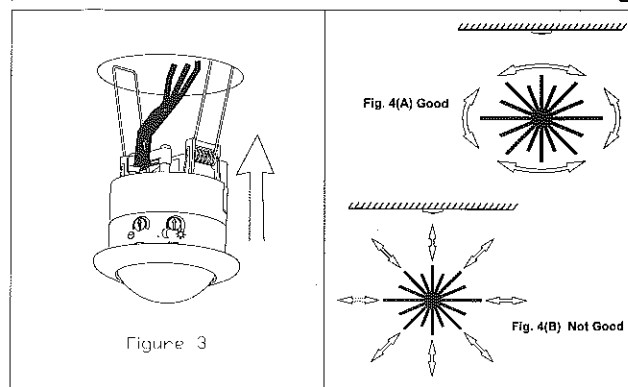
After finishing the fitting operation, you can adjust the detection area and working state of PIR sensor

■ OPERTATION MODE:

WALK TESTING:

When power is switched on to the **PIR32 & PIR33**, the **PIR32 & PIR33** sensor will enter into a "WARN-UP" period for about 30 seconds (within 1 minute) and then automatically change into "AUTO MODE". While sensor is in the AUTO MODE, you can then carry out a Walk-Test by placing the LUX control to day position (✳) and the TIME control to minimum (-). Once the **PIR32 & PIR33** sensor receives a valid trigger signal (such as movement of a human body) within its detection area, the lamp(s) (load) will be turned on for the pre-set period of time. You will be able to determine the detection area by walking slowly. Please be noted that movement across the scan area is more effective than movement directly toward or away from the sensor. (refer Fig.4A). If movement is towards or away from the sensor, not across, the detection range will reduce. (refer Fig. 4B)

After completing the walk-test, set the LUX KNOB to the night position to ensure PIR32 and PIR33 only operates at night and set TIME KNOB to the desired "ON' time.

ADJUSTING THE LUX CONTROL LEVEL:

The Lux control module has a built-in photocell that detects daylight and darkness.

(✳) position denotes that the lamp(s) (load) will be turned on by PIR during day and night.

(☽) position denotes that the lamp(s) (load) will be turned on by PIR only at night.

You can set to operate the unit at the desired level by adjusting the LUX knob

ADJUSTING THE DURATION TIME:

The duration time is "the length of time that the **PIR32 & PIR33** switches the load 'on' after activation". The duration time can be adjusted from (10±5) seconds to (15±2) minutes. Rotating the TIME knob from (+) to (-) will reduce the duration time.

Note: Once the lamp(s) (load) has been triggered by the PIR sensor any subsequent detection will start the timed period again from the beginning.

■ ATTENTION:

1. **Before any electrical work, ensure mains supply cable is isolated by switching off and removing the relative fuse.**
2. **There are not any servicing parts inside, do not attempt to modify or service the unit.**
3. **It is normal that the load will delay several seconds to be turned on when power on.**

■ IMPORTANT:

Never attempt to remove the lens cover as this will damage the sensor and render all guarantees invalid.

■ TECHNICAL DETAILS:

    Voltage: 220 -240VAC 50 Hz

    Wattage: Max. 2000W incandescent bulb (resister-load) or 500W fluorescent load

    Detection range: 360°, radius 4.5 meters with installation height of 2.8 meters

    Duration time: From (10±5) seconds to (15±2) minutes adjustable

    Lux control level: From daylight to night