

# OUTDOOR MOTION SENSOR LIGHT MODEL RH-150U

## SPECIFICATION

1. POWER: 220-240V ~ 50Hz.
2. 20 SEC. to 10 MIN. adjustable shut-off time.
3. 150watts (MAX.) lighting load for halogen lights.
4. 90" elliptical view field, 12 meters forward.
5. Weather resistant.
6. Sensitivity adjustable.

## FUNCTION & CONTROL

1. TIME : Adjusts the infrared motion sensor's shut-off time. Light will remain on for the setting time interval after last motion is detected.
2. SENS.: Increases or decreases the sensitivity of the sensor and its range.

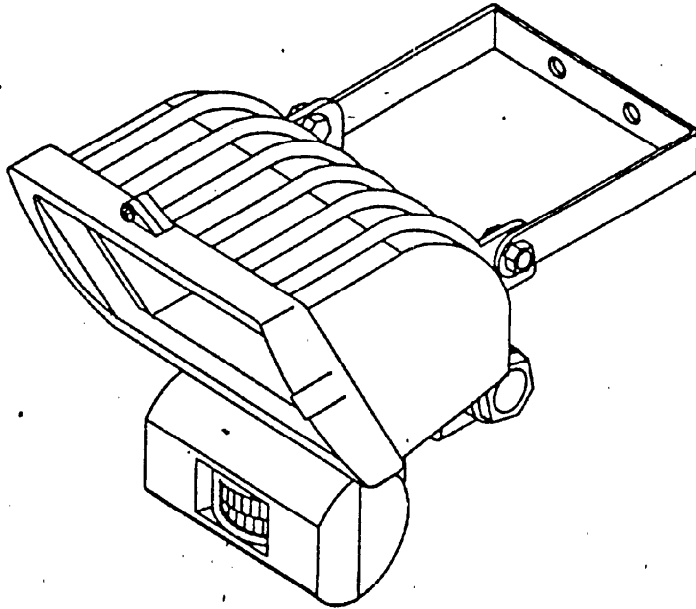


Fig. 1

## INSTALLATION

Warning: If in doubt, the installation of the infrared motion sensor should be carried out by a qualified electrician.

Before you begin, please verify the contents of this package. It should contain the following parts: (see Fig. 2)

LIST	PARTS NAME	QUANTITY	LIST	PARTS NAME	QUANTITY
A	Mounting Bracket	1	H	Rubber Washer	1
B	Halogen Light	1	I	Terminal Block	1
C	Screw A	2	J	Screw B	2
D	Gear Washer	2	K	Fixed Plate	1
E	Spring Washer	2	L	Screw C	2
F	Nut	2	M	Ground Screw	1
G	Bolt	1	N	Gear Washer	1

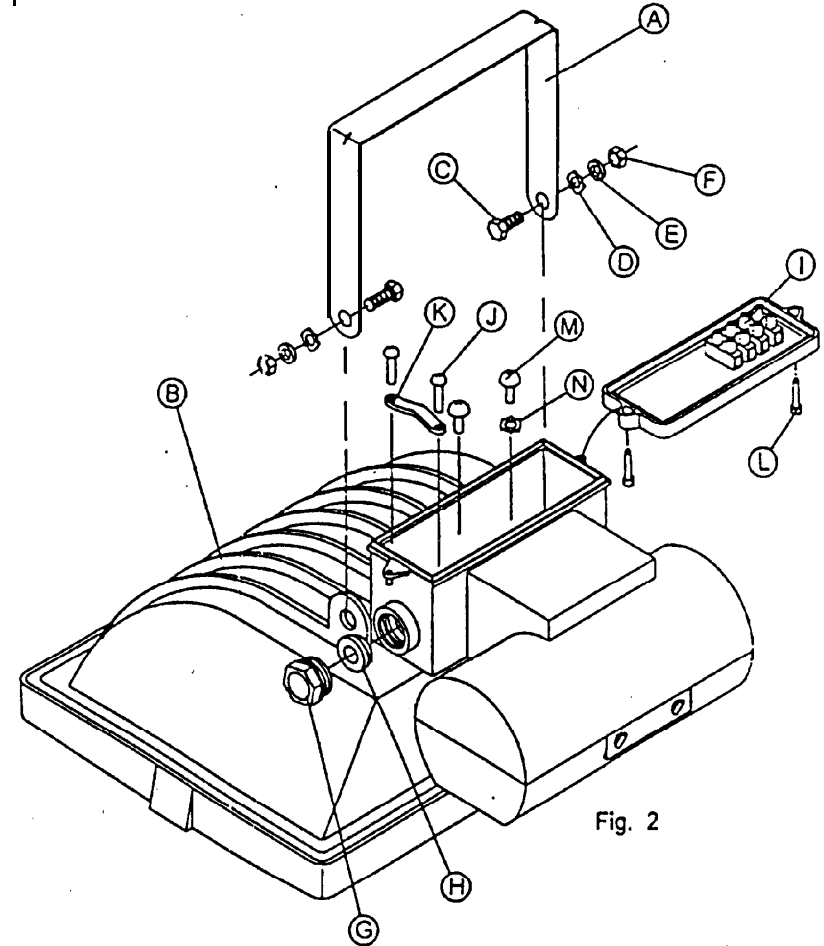
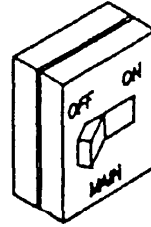


Fig. 2

Before mount the sensor on the wall or ceiling, please refer the figures as below to prevent INCORRECT installation.

Fig. 3



1. Turn off the power at the main fuse box in your home (see Fig. 3).
2. Fix metal bracket on the wall with 2 Wood Screws (not included).
3. Fix halogen, lamp to metal 'bracket with attached hardware.
4. Strip jacket and insulators of power wire. Let conductors expose approximate 6 mm.
5. Open cover of connection box.
6. Lead power wire through attached grommet.

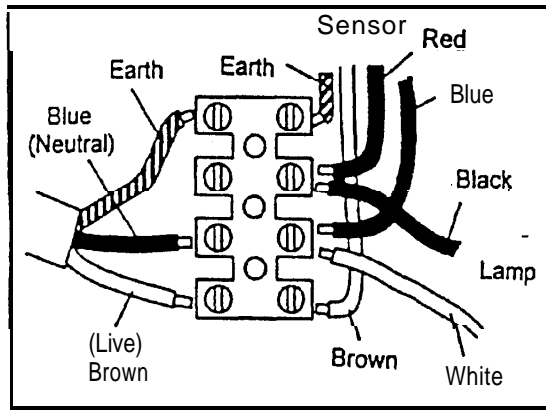


Fig. 4

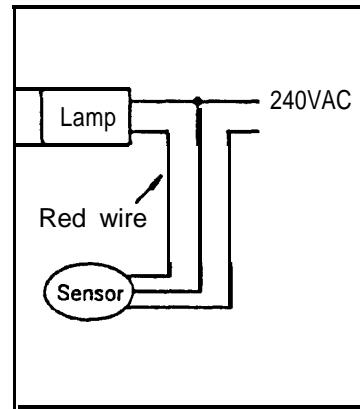


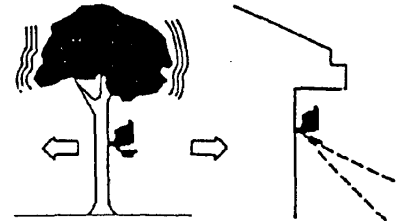
Fig. 5

7. Put wire to terminal block. Please refer to fig. 4 & 5 for correct position. Screw down the screws on the terminal block.
8. Fix power wire 'inside connection box.
9. Screw grommet onto connection box to tight.
10. Close cover of connection box.

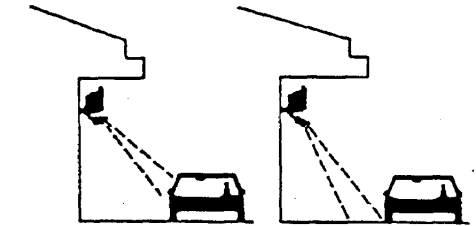
NOTE: 1. If more range is required, try pointing the motion sensor **slightly** upward, the LENS of vision may be monitoring an area above your head.  
 2. Try to keep the **quartz** light as far away as possible from the motion sensor, as heat from the light may **confuse** the motion sensor.

### ■ INSTALLATION HINTS

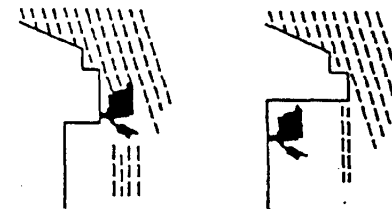
■ MOUNT ON STABLE SURFACE



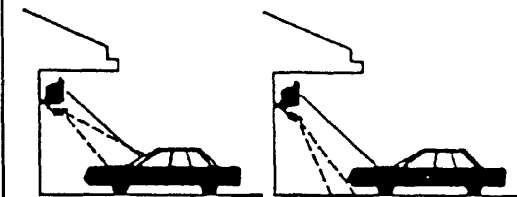
■ AIM SENSOR DOWN TO REDUCE RANGE



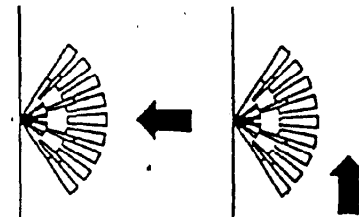
■ DON'T EXPOSE TO RAIN OR ICICLES



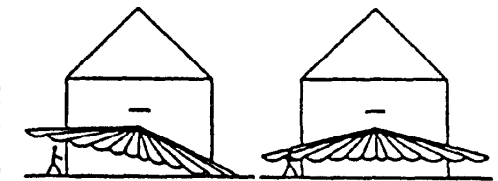
■ AVOID REFLECTED LIGHT FROM BRIGHT SURFACES



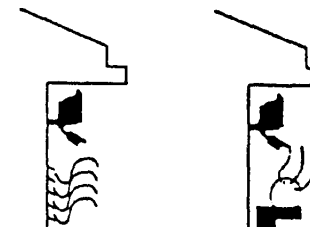
■ MORE SENSITIVE TO MOVEMENT ACROSS THE PATH



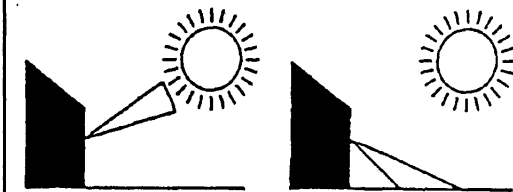
■ POSITION SENSOR EXACTLY LEVEL FROM SIDE TO SIDE



■ KEEP AWAY FROM AIR VENTS DON'T MOUNT ABOVE LAMPS



■ AIM SENSOR DOWN TOWARD GROUND



# OPERATION

After installation, the motion sensor light is controlled by the same switch which originally controlled the light fixture. This allows you to turn light on or off manually at any time. While also allowing you to set the motion sensor light on its auto mode for automatic operation.

- NOTE: 1. When switch to "ON" position the sensor unit needs about **30 secs** to warm up the light **may** turn on before normal operation.
2. Before operation, please refer the mode sequence diagram. (Fig.6)

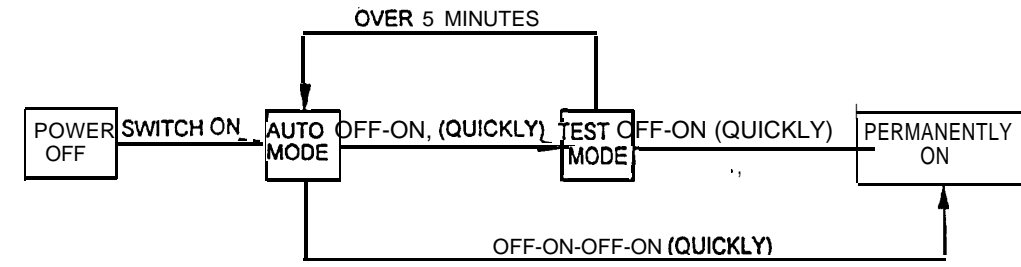


Fig. 6

**Operating The Light Automatically**  
Turn the switch to "ON" position. Sensor unit will go to auto mode directly. TEST, Mode

This unit is built in a "FIVE minutes test mode" function for installation test. When motion sensor light is on auto mode, it will enter test mode by flipping switch OFF-ON quickly. Light will stay on within 30 seconds at first triggering, then off. The subsequent triggers will turn the light on for 4 secs. each time until FIVE minutes are over. The test mode can be used at day and night. This sensor can return to auto mode before five minutes are over by flipping switch OFF-ON-OFF-ON quickly.

**Keeping The Light ON**  
Once your motion sensor light is on auto mode, you can keep the light on by flipping the switch "OFF-ON-OFF-ON" within one second between every step. Please see the figure 6.

**Turning The Light Off**  
When the switch is in the "OFF" position. The light will remain off and motion sensor light won't be triggered.

**Adjusting Shut-Off Time**  
The motion sensor light shut-off timer has been preprogrammed to turn a light on for a minimum of 20 seconds and maximum of 10 minutes. Turn the adjusting knob marked with "TIME" clockwise to increase the lighting cycle and counterclockwise to decrease.

**Adjusting Detection Distance (SENS.)**  
The sensor's detecting distance can be adjusted to your need. Turn the adjusting knob clockwise to increase detection distance and counterclockwise to decrease.

**Adjusting for desired detection coverage**  
Your motion sensor light is programmed 90° horizontal field of view. Its practical range is up to 8 meters. (see Fig. 7)

Mark the area that you intend to monitor. Set sensor light to "TEST" mode. then walk slowly into the marked area. Adjust the direction of sensor until most satisfy coverage is obtained.

Continue adjusting infrared motion sensor by raising it or lowering it, or using tape until you are satisfied (Fig. 7)

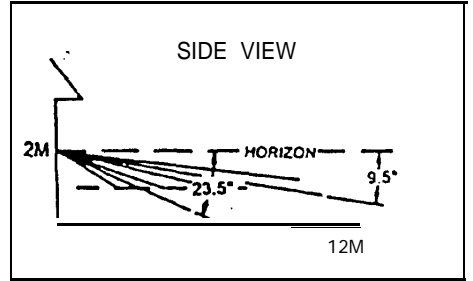
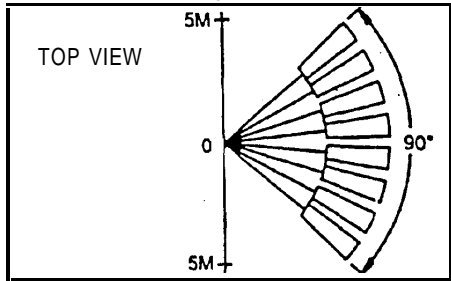


Fig. 7

## OPERATION TIPS

- Lights Do Not Turn On**
- To turn control switch "OFF" then "ON" quickly. Remember, the day test period is 5 minutes long.
  - Check that bulbs and fixtures are worked. Compare wiring to the wiring diagram. Check that power is on.
  - Check that sensor is levelled from side to side and pointed at the area you desire. Sensor should be pointed slightly downward.

- Lights Go On And Off Quickly**
- Make sure lights are not reflecting back into the sensor. Check for white or reflective surfaces in the protection pattern. Aim sensor and lights in different direction.
  - Note that the sensor is more sensitive in winter since infrared energy is easier for the sensor to detect in cold temperature.

- Lights Do Not Turn Off**
- Check that the time control knob on the bottom of the sensor is set to minimum.
  - Stay completely out of the protection pattern to avoid activating.
  - Make sure unit is not mounted on an unstable object (tree or pole) that sways in the wind. Make sure unit is firmly mounted.
  - Make sure unit is not aimed at something that would cause a temperature change such as free branch, a body of water, air conditioner or heating vents.
  - Make sure unit is not in "Manual override" mode. Turn power off for more than 5 seconds. then back on again to resume automatic operation.

**Lights Turn On In Storms.**  
Rain, snow and windstorms can create large temperature changes which may turn on the sensor. False triggering can be minimized by installing the sensor in a protected location and turning down the sensitivity control.

- Maintenance And Repair**
- DO not attempt to repair sensor unit. This may damage the system (thus invalidated your sensor warranty) or result in personal injury.
  - Clean your sensor with a clean damp cloth, wiping exterior surface and lens only.

## N.B IMPORTANT

If multiples of sensors are connected on the same circuit please fit 0.47uf mains rated capacitor across terminals switched live and neutral.