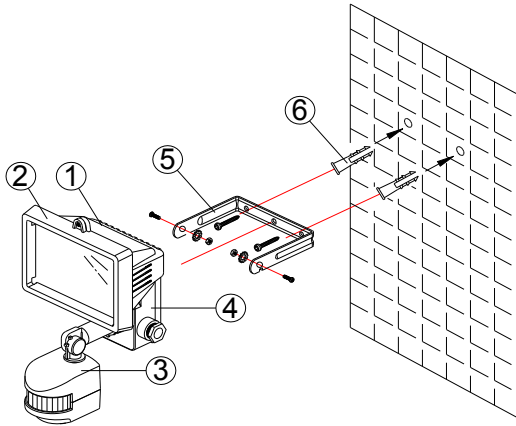


SEC150/500

**SEC150 MOTION SENSOR 150W
FLOODLIGHT**
**SEC500 MOTION SENSOR 500W
FLOODLIGHT**



- ① Floodlight
- ② Front Surround
- ③ PIR (Motion Sensor)
- ④ Wiring Box
- ⑤ Mounting Bracket
- ⑥ Fixing Screw & Plastic Wall Plug
(not supplied)

INTRODUCTION

Your SEC150/500 MOTION SENSOR 150W/500W FLOODLIGHT is a fully automatic security light system capable of detecting up to a 200 degree coverage area. At night, the built-in passive infrared (PIR) motion sensor turns on the floodlight when it detects motion in its coverage area. During the day, the built-in photocell saves electricity by deactivating the floodlight. An adjustable timer lets you select how long the floodlight stays on.

Note : Read this entire manual before you start to install the system.

SAFETY PRECAUTIONS

- Do not install when it is raining.
- Be sure to switch off power source before installing.
- Make sure that the power wiring comes from a circuit with a suitable fuse or circuit breaker.
- Keep minimum 0.8m away from lighted objects for 150W floodlight.
Keep minimum 1m away from lighted objects for 500W floodlight.
- Keep minimum 30cm away from the ceiling and wall. (FIGURE 1)

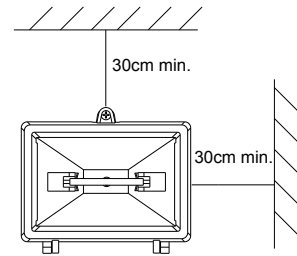
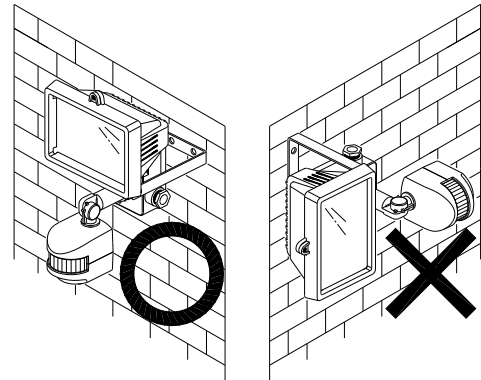


FIGURE 1

- The unit can be installed only horizontally (see the FIGURE 2a), not vertically (see the FIGURE 2b)



HORIZONTAL VERTICAL
FIGURE 2a & 2b

IMPORTANT

Some local building codes may require installation of this product by a qualified electrician.

Check your local codes as they apply to your situation. If the house wiring is aluminum, consult with an electrician about proper wiring methods.

Before proceeding with the installation, **TURN OFF THE POWER TO THE LIGHTING CIRCUIT AT THE CIRCUIT BREAKER OR FUSE BOX TO AVOID ELECTRICAL SHOCK.**

CHOOSING A MOUNTING LOCATION

- For the best results, fix your sensor on a solid surface, 1.8~2M above the ground.
- For outdoor installation, a location under eaves is preferable.
- Avoid aiming the motion sensor at pools, heating vents, air conditioners or objects that may change temperature rapidly.
- Do not allow sunlight to fall directly onto the front of unit.
- Try to avoid pointing the unit at trees or shrubs or where the motion of pets may be detected.
- Prior to mounting, keep in mind that the motion sensor is most sensitive to motion, that is across the detection field and less sensitive to motion, that moves directly towards the detector. (FIGURE 3)

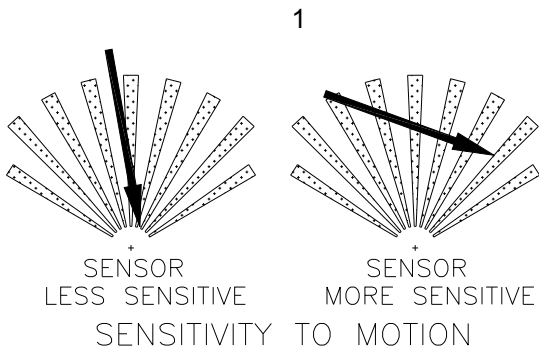


FIGURE 3

LAMP INSTALLATION

CAUTION : Always handle quartz halogen lamps with a soft cloth. Do not touch the lamp with your bare hand as it will shorten the life of the lamp.

- (1) Do not touch the floodlight while it is in use or still hot. Allow it to cool before touching it.
- (2) Do not use halogen lamps rated higher than 150 watts for SEC150 and 500 watts for SEC500.
- (3) Disconnect the power cord or wall switch. Unscrew retaining screw at the top of the unit. This will release the front surround.(FIGURE 4)

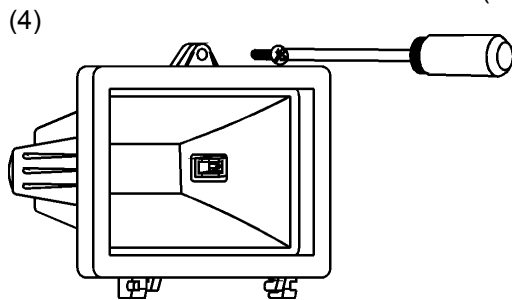


FIGURE 4

- (5) Raise front surround. Lift off retaining lugs.(FIGURE 5)

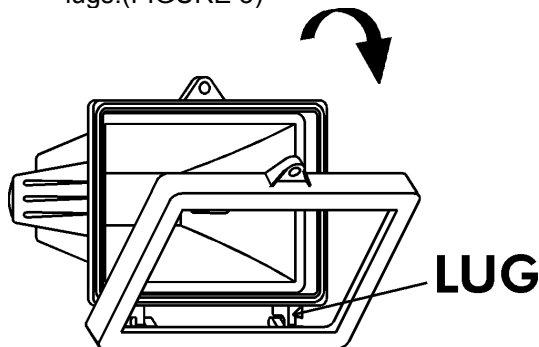


FIGURE 5

- (6) Unwrap the halogen lamp, taking care that the fingers do not touch the glass. Push one end into either of the spring loaded sockets. Locate other end on other socket and release.(FIGURE 6)

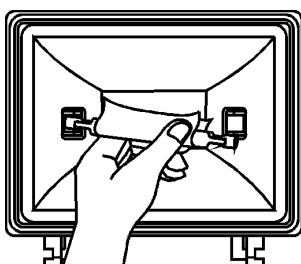


FIGURE 6

- 2
- (7) Carefully replace front surround making sure that the seal is correctly positioned. Screw up firmly. (FIGURE 7) DO NOT OVER TIGHTEN.

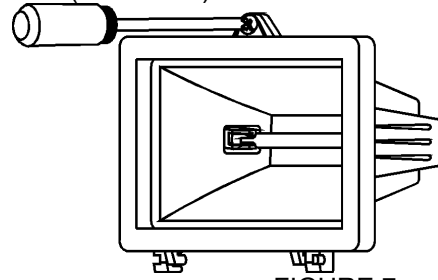
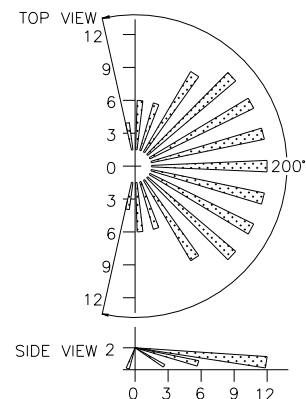


FIGURE 7

INSTALLATION

To facilitate installation select a location for the unit based on the coverage angles shown in FIGURE 8.



UNIT(M)
COVERAGE ANGLES
FIGURE 8

Install a wall switch adjacent to the power source. (FIGURE 9) This helps you operate with ease. See Operation for further information.

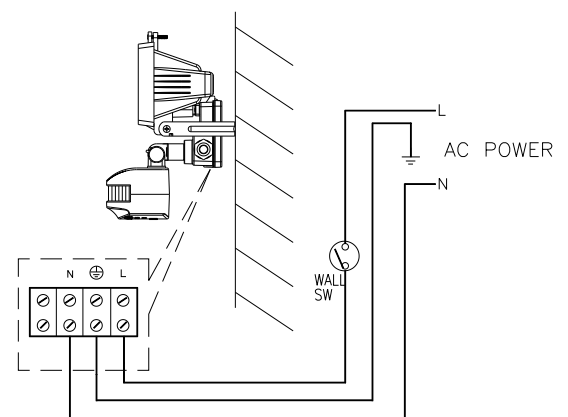


FIGURE 9

WIRING INSTRUCTION

- (1) Switch off the power source.
- (2) Remove the mounting bracket from the floodlight. Drill the wall and screw the bracket onto the wall using suitable plastic wall plugs and screws. Check that the bracket is securely fitted on the wall.

Note: Do not at this stage re-attach the floodlight to the bracket.

3

- (3) Use a flat blade screwdriver to hinge the wiring box cover from one of the grooves beneath the wiring box and apply the same step to hinge the other groove. Keep the wiring box cover open for further wiring operations. (FIGURE 10a & 10b)

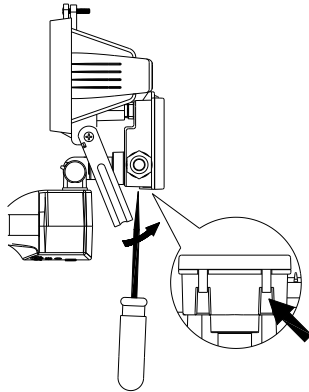


FIGURE 10a

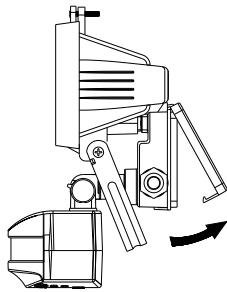


FIGURE 10b

- (4) Loosen the two screws on the pressure block and unscrew the waterproof cable gland.
 (5) Route the power cord through the cable gland and pressure block.
Note: The power cord must meet H05RN-F, 3G, 1.0mm² requirement.
 (6) Strip approximately 6-8mm of insulation from the wires of the power cord. Before connection, ensure that the wiring box gasket is firmly seated in its original place.
 (7) Connect the YELLOW/GREEN(Ground wire) to the terminal block “⊕” mark.
 (FIGURE 11)

Connect the BLUE wire (Neutral) to the terminal block marked “N”.

Connect the BROWN wire (Live) to the terminal block marked “L”.

4

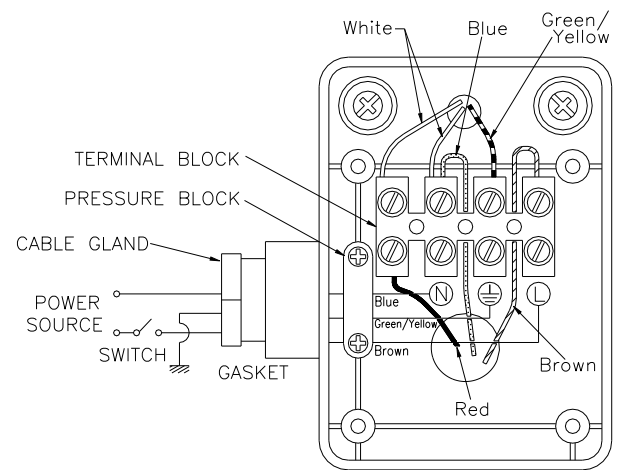


FIGURE 11

- (8) Use the pressure block to fix the power cord by fastening its two screws. Tighten the cable gland and close the wiring box cover. (FIGURE 12)

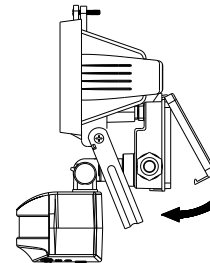


FIGURE 12

- (9) Re-attach the floodlight to the bracket and secure the cable to the wall using suitable clips. Ensure that the cable is not touching the body of the floodlight, and that there is sufficient slack in the cable to allow the floodlight to be tilted and adjusted as required, which should be done by grasping the metal body of the floodlight, not its rear wiring box. (FIGURE 13)

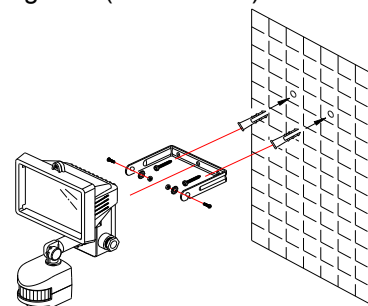


FIGURE 13

SETTING THE LIGHTING SYSTEM

(1) TEST MODE

- Turn the Time control and the Light control fully anti-clockwise to the T (Test) position. (FIGURE 14).

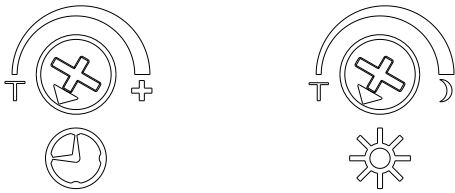


FIGURE 14

- Turn on the wall switch. The floodlight will turn on for about 1 minute to warm up. Then it turns off.
- Walk through the detection area. The floodlight turns on when you move and turns off when you stop. Wait for the floodlight to turn off before moving again to test the sensor.
- Adjust the motion sensor sensitivity to cover the desired detection area. For a smaller coverage area, tilt the sensor down; for a larger coverage area, tilt the sensor up.

(2) TIME ADJUSTMENT

The TIME adjustment controls how long the floodlight will stay on after the motion has been detected.

Turn the TIME control knob clockwise to increase (up to about 12 minutes) how long the floodlights stay on or anti-clockwise to decrease (down to about 8 seconds) the time delay (FIGURE 15).

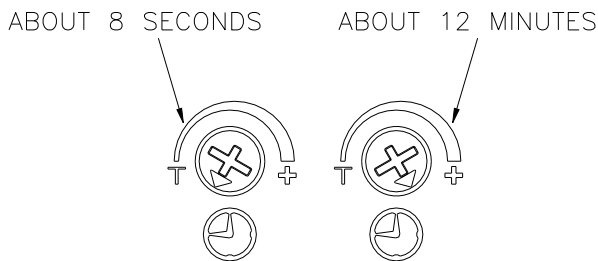
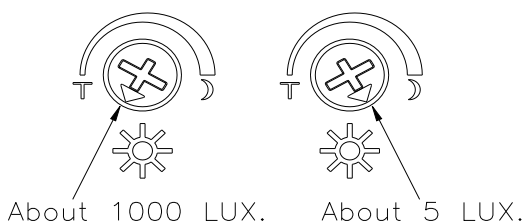


FIGURE 15

(3) LIGHT ADJUSTMENT

The LIGHT adjustment adjusts the sensitivity and determines what light level the lighting system will start operating when you set the sensor to Automatic Operation.

Provisionally turn the LIGHT control knob fully clockwise to the moon (dusk) position (FIGURE 16). In this provisional setting mode, the motion sensor remains inactive during daylight. At dusk when you have the LUX level desired for operation, simply set the LIGHT control knob to the position that activates the lighting system.



OPERATION

By using the wall switch connected to your motion sensor floodlight, you can easily select one of two modes of operation: Automatic Operation and Manual Override.

(1) AUTOMATIC OPERATION

Turn on the wall switch. When the motion sensor detects motion, the light automatically turns on. The built-in photocell sensor turns the motion sensor off and on according to the light level set by the LIGHT adjustment.

(2) MANUAL OVERRIDE

To keep the light on regardless of the motion, you can override the Automatic Operation. By turning the wall switch OFF and ON twice within 4 seconds (the interval between the first and second operation must be within 0.5 - 2 seconds), the light will remain on in manual override mode.

In Manual Override mode, the light will remain on for around 4 ~ 6 hours despite no motion; then the light will be reset back to Auto Operation mode automatically.

Users can also set the motion sensor back to Auto Operation by turning off the wall switch for at least 10 seconds and then turning back on.

TROUBLESHOOTING

Light does not turn on

- Confirm that you have made a correct "wiring connection".
- Make sure that the lamp has not burnt out.
- Check if the fuse has blown.

Light remains on

- Make sure the wiring connection is correct.
- Check if the TIME setting is correct.
- Check if the LIGHT (Lux) setting is correct.
- Ensure that the PIR sensor is not being continually activated by a heat/movement source.

SPECIFICATIONS

Power Requirement	AC 220 ~ 240V / 50Hz
Power Cord Requirement	H05RN-F, 3G, 1.0mm ²
Lighting Load	Max. 150W Halogen Lamp for SEC150. Max. 500W Halogen Lamp for SEC500
Detection Angle	Up to 200° at 20°C
Detection Distance	Up to 12M at 20°C
Swiveling Angle	Lamp Part: Vertical 90° Sensor Part: Horizontal 190°, Vertical 35°
Mounting Height	Recommended 1.8 ~ 2M (5.9 ~ 6.5 Ft) Wall Mount
Wall Switch Control	On / Off
Time Adjustment	8 sec ~ 12 min
Lux Adjustment	Approx. 5 ~ 1000 lux
Warm Up Time	About 1 min
Protection Class	Class I

Protection Degree	IP44
Safety	CE, GS

PHASESEC150/500

