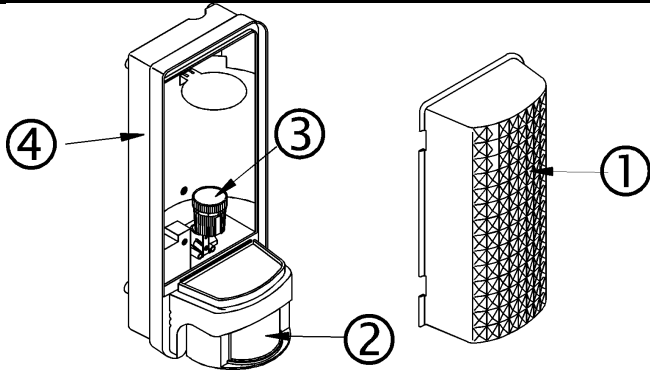


NL88

MOTION SENSOR BULKHEAD LIGHT



- ① Lamp Shade
- ② PIR Motion Sensor
- ③ Bulb Holder
- ④ Bottom Housing

INTRODUCTION

Your EVERSPRING MOTION SENSOR BULKHEAD LIGHT is a unique lighting system for your home or business. 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 sensor saves electricity by deactivating the floodlight. Time and Lite adjustment functions let you select how long and when the light will stay on after activation. Two operation options let you choose: Automatic Operation or Manual Override.

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 circuit with an external 16A miniature circuit breaker for the short circuit protection or a suitable fuse.
- Keep minimum 0.8m away from the lighted objects.
- The unit can be installed only vertically (FIGURE 1a), not horizontally (FIGURE 1b).

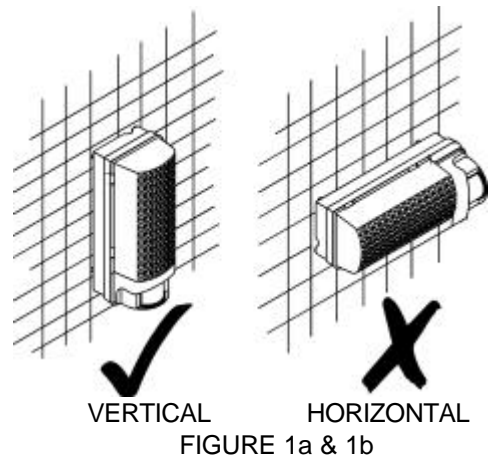


FIGURE 1a & 1b

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 of aluminum, consult with an electrician about proper wiring methods.

Maintenance or repairing work such as replacing current fuse shall be done by a qualified electrician or technician.

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 motion sensor light on a solid surface, 1.8~2.5m 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 on 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 more sensitive to the motion, which is across the detection field and less sensitive to the motion, which moves directly towards the detector (FIGURE 2).

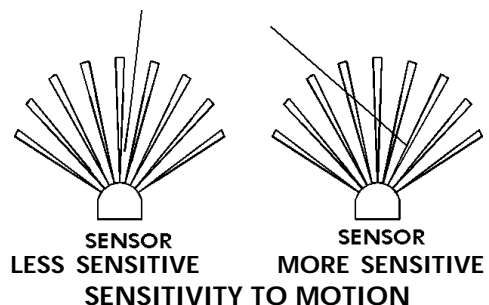


FIGURE 2

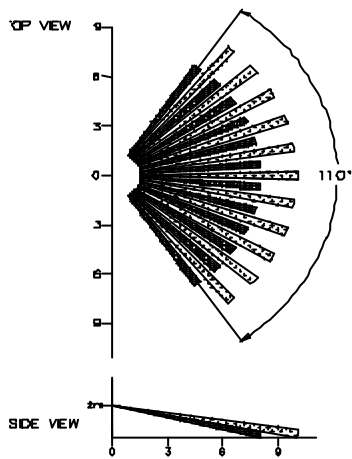
BULB INSTALLATION

- (1) Remove the lamp shade with a flat screwdriver.
- (2) Insert an incandescent or a PL bulb to the bulb holder by turning clockwise.

Note: Do not use an incandescent bulb rated higher than 60W or alternatively 13W for a PL bulb.

INSTALLATION

To facilitate installation, it is essential to get a drill and a screwdriver ready. Select a location for the unit based on the coverage angles shown in FIGURE 3.



UNIT (m)
COVERAGE ANGLES
FIGURE 3

Install a wall switch adjacent to the power source. (FIGURE 4). This will help you operate this motion sensor light with ease. See OPERATION for further information.

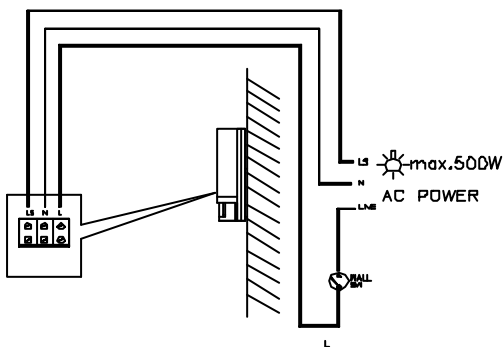


FIGURE 4

WIRING INSTRUCTION

- (1) Switch off the power source or wall switch.
- (2) Use a flat screwdriver to hinge off the lamp shade from its bottom housing (FIGURE 5).

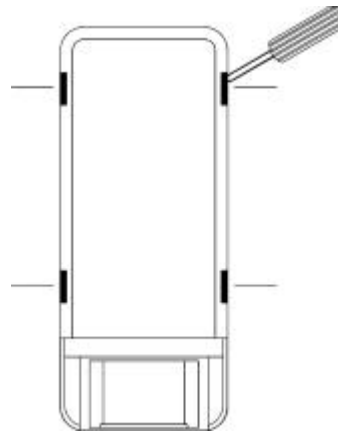


FIGURE 5

- (3) Use a screwdriver to break a small hole on the cable gasket and route the power cord along the groove to go through the cable gasket hole (FIGURE 6a & 6b)

Note: The power cord and interconnecting cord must meet H05RN-F, 3G, 1.0mm² requirement.

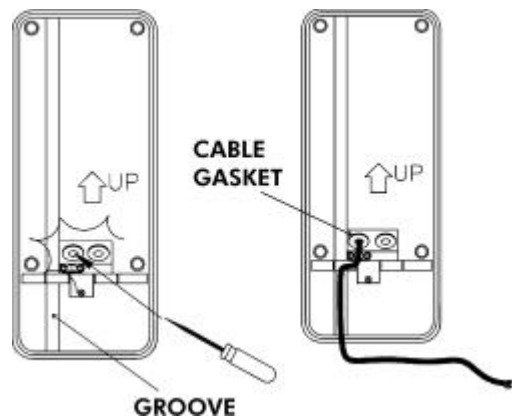


FIGURE 6a

FIGURE 6b

- (4) The terminal block is put in a cavity beside the bulb holder. Remove the terminal block cover by unscrewing the screw from the terminal block cover and take out the terminal block from the cavity for wire connection. (FIGURE 7a & 7b).

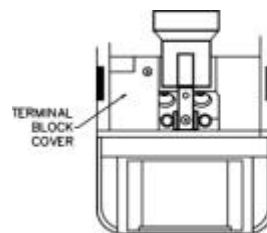


FIGURE 7a

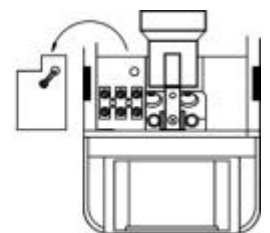


FIGURE 7b

- (5) Connect the BROWN (BLACK) wire to terminal block "L" mark. Connect the BLUE (WHITE) wire to terminal block "N" mark (FIGURE 8). After wiring, replace terminal block and block cover back to the original place.

Note: Under the circumstances of not connecting to the extra lighting load, the unit housing can either fit a 60W maximum incandescent bulb or a 13W PL bulb. However, it can still commute additional lighting load up to 500W incandescent. Those extra lighting devices may be added as follows (FIGURE 8).

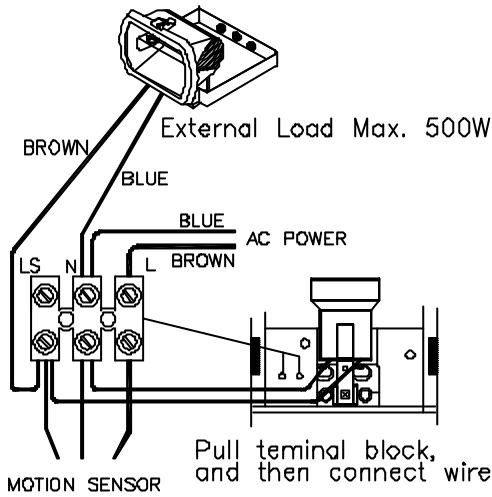


FIGURE 8

Connect the BROWN wire to terminal block “LS” mark.
Connect the BLUE wire to terminal block “N” mark.

(6) Drill two holes on the bottom housing using the two screws provided to fix the unit to the wall.

Note: Ensure that the position of two screws to fix on the wall should be inserted diagonally and from the break-thru points followed exactly according to the drawings shown (FIGURE 9a & 9b).

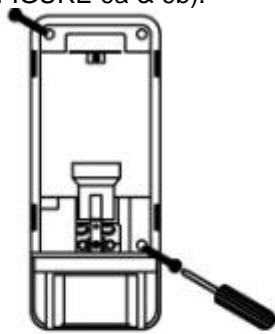


FIGURE 9a

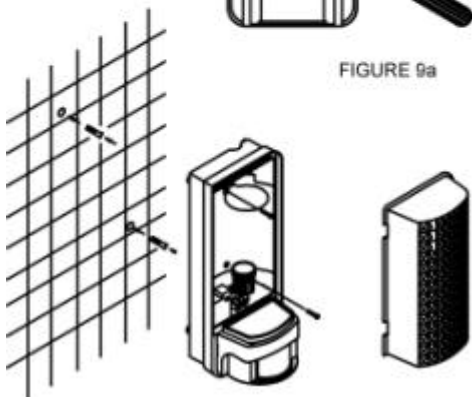


FIGURE 9b

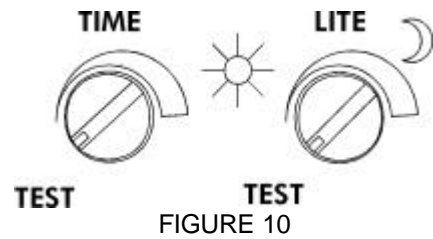


FIGURE 10

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

(2) TIME ADJUSTMENT

The TIME adjustment controls how long the light 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 light stays on or anti-clockwise to decrease (down to about 5 seconds) the time delay (FIGURE 11).

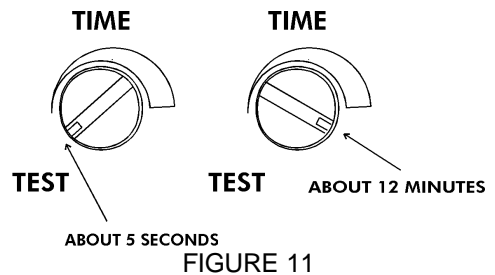


FIGURE 11

(3) LITE ADJUSTMENT

The LITE adjustment determines at what light level the lighting system will start operating when you set the sensor to Automatic Operation.

Turn the LITE control knob to the edge clockwise at the moon (dusk) position (FIGURE 12). In this provisional setting mode, the motion sensor remains inactive during daylight. At dusk when you find it is the LUX level desired for operation, simply set the LITE control knob to the position that the motion sensor light will become active as daylight declines.

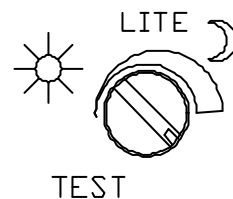


FIGURE 12

SETTING THE LIGHTING SYSTEM

(1) TEST MODE

- Turn the Lite control and the Time control anti-clockwise to the edge – the TEST position (FIGURE 10).

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 floodlight automatically turns on. The built-in photocell sensor turns the motion sensor off and on according to the light level set by the LITE Adjustment.

(1) 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 within 2 seconds, the light will remain on. Users can also set the motion sensor back to Automatic Operation by turning off the wall switch for at least 10 seconds and then turn it back on.

TROUBLE SHOOTING

Light does not turn on:

- Confirm that you have made a correct "wiring connection".
- Make sure that the bulb has not burned out.

Light remains on:

- Make sure the wiring connection is correct.
- If you set the motion sensor to Manual Override, remember that you must turn the wall switch off for at least 10 seconds before switch the motion sensor on back to Automatic Operation.
- Check if the TIME setting is correct.

SPECIFICATIONS

Power Requirement	AC 220 ~ 240V / 50Hz
Power Cord Requirement	H05RN-F, 3G, 1.0mm ²
Lighting Load	Max. 60W Halogen Bulb or 13W PL Bulb
Additional Lighting Load	Max. 500W Incandescent
Detection Angle	Up to 110° at 20°C
Detection Distance	Up to 10m at 20°C
Swiveling Angle	Left 30°, Right 30°
Mounting Height	Recommended 1.8 ~ 2.5m (5.9 ~ 8.2 Ft) Wall Mount
Wall Switch Control	On / Off / Manual Override
Sensor Operation	Auto
Time Adjustment	5 ± 3 sec ~ 12 ± 3 min
Lux. Adjustment	About 0 Lux. to 1,000 Lux.
Operating Temperature	-20°C ~ +40°C
Warm Up Time	About 1 min.
Protection Class	Class II
Protection Degree	IP44
Safety	CE, GS



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