

# **INFRARED MOTION ACTIVATED SECURITY LIGHT INSTALLTION INSTURCTIONS**

**Model # L6003**

## **1 Year Warranty on Fixture**

(Does not apply to bulbs, which have no warranty)

Congratulations and Thank You! The fixture you have purchased should give you 1 year of trouble free service. We take pride in the design and construction of each of our products and work to maintain the quality of our materials and craftsmanship to assure your satisfaction.

This product is warranted to be free of defects in workmanship and materials for a period of 1 year from the original date of purchase. If any problems appear (other than burnt out bulbs, which carry no warranty) within 1 year, the purchaser may return the item, freight prepaid, together with a copy of your original purchase receipt to:

Southwire Co. 11290 80<sup>th</sup> Ave. Pleasant Prairie, WI 53158

Upon receipt of the item prepaid with a letter describing the problem, and a check for \$7.50 to cover return postage and handling, the company will, at its option, either repair or replace the defective part or fixture at no charge to the purchaser. This warranty does

not apply to fixtures that have been used for rental or commercial purposes. It does not cover fixtures that have been altered in any way or fixtures that have been subject to misuse, accidents or damage in transit.

**IN NO CASE SHALL THE COMPANY BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES. NO CHARGES WILL BE ACCEPTABLE FOR UNAUTHORIZED REPAIRS, PARTS OR SERVICE.**

Some states do not allow limitations on how long an implied warranty lasts and do not allow exclusions or limitations of incidental damages, so parts or all of this warranty limitations or exclusions may not apply to you. Legal warranty rights will vary from state to state and you may have other rights.

## IMPORTANT NOTICE:

Every attempt has been made to deliver a quality product that will give you years of trouble free service. In the event that you have problems with the fixture, please **DO RETURN TO PLACE OF PURCHASE. PLEASE CALL THE NUMBER BELOW FOR BULB OR PARTS PROBLEMS:**

**(847) 672-4017**

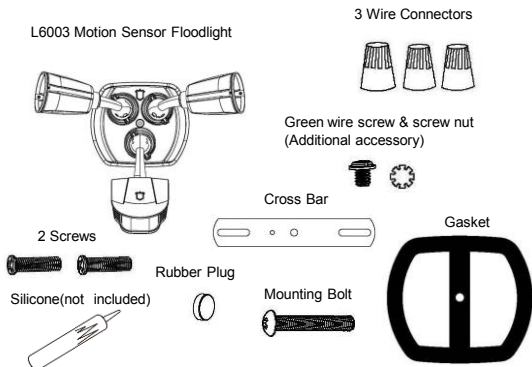
8-5 pm (West Coast time). All warranty problems are handled through Southwire Co.

### HOW IT WORKS

Congratulations on the purchase of your Southwire Co. motion sensor light with infrared detection. The motion detector turns lights on and off after sensing moving heat sources in target area. Connected to light fixtures:

- Use as security light for any unprotected side or corner of house. Lights will be activated when intruder passed through target area of sensor.
- Install as a sensing device to turn lights on as people approach the entrance of your home.
- Functions as welcome light if installed to sense cars entering driveway.

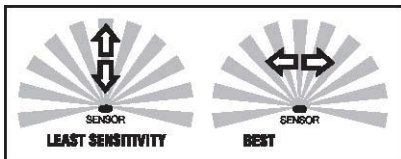
## PACKING INCLUDES



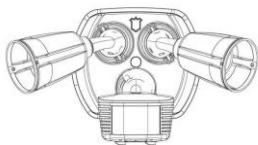
## INSTALLATION

### CHOICE OF LOCATION

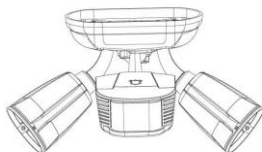
Whenever possible, locate the unit so that its coverage area is away from heat sources or reflective surfaces, such as heating vents, air conditioners, large moving trees or pools of water. Whenever possible, locate the unit so that motion moves across the coverage area, not directly towards or away from the motion sensor. It is because the motion sensor is more sensitive to motion across it, not towards or away from it.



**Note:** The detection range specified above is based on the sensor's performance in conditions that represent average temperatures found in North America. The detection range of the sensor will vary with changing ambient temperatures.



Wall Mount



Eave Mount

This fixture may be mounted on a wall or an eave. It may be mounted onto a standard recessed outlet box or a wet location / outdoor outlet box. For easy installation, replace an existing light fixture that is already connected to a wall switch.

**WARNING:** Maintain minimum 1.5" (3.8cm) distance between lampholders and sensor head. Do not point lampholders directly at ceiling; possible fire hazard. Do not let lamps touch ceiling. Keep a minimum 2" distance from ceiling.

#### TIPS FOR PROPER OPERATION

1. For optimal operation and optimal coverage area mount unit 6 to 8ft. above ground on house overhang or wall.
2. Mount away from heat producing sources such as air conditioners & barbecue grills, other light fixtures or sources of light. Keep in mind areas with traffic, pets or other moving objects may cause nuisance triggering.
3. Do not aim at highly reflective surfaces such as smooth white walls, waterfalls, or windows.
4. Point sensor slightly downward. Do not mount up facing sun.
5. If you are unfamiliar with electrical wiring, it is recommended you secure the services of qualified electrician who can assure this installation meets national and local electrical codes.

#### ASSEMBLY

If you already have outdoor lights in the location you intend to mount the new fixture, you simply disconnect old fixture and remove. Follow steps for wiring the new units to existing electrical box. If you do not have power to that location, a new outlet box and wiring must be installed. **DO NOT ATTEMPT TO DISASSEMBLE THE MOTION SENSOR HEAD. THERE ARE NO USER SERVICEABLE PARTS INSIDE.** See electrical wiring instructions for installation.

**Remark:** Fill in the wall plates and mounting surface with silicone.

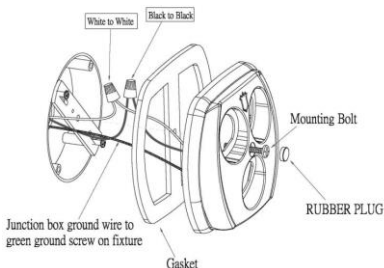
**CAUTION:** Before beginning installation disconnect power to the location where the light will be installed by shutting that controls the light is not sufficient to prevent

electrical shock.

MAIN  
CIRCUIT BREAKER OR FUSE



**CAUTION: BEFORE BEGINNING INSTALLATION, FIRST DISCONNECT POWER TO WIRING LOCATION BY SHUTTING OFF CIRCUIT BREAKER OR REMOVING FUSE AT FUSE BOX. SHUTTING OFF A WALL SWITCH THAT CONTROLS THE LIGHT IS NOT SUFFICIENT TO PREVENT ELECTRIC SHOCK.**

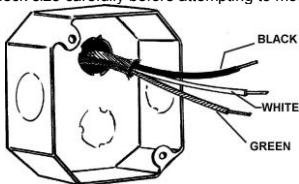


### WIRING THE LIGHT CONTROL

Fixture is pre-wired for quick and easy installation for both professionals and do-it-yourself alike:

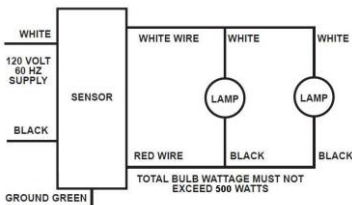
**DO NOT REMOVE ANY CRIMP CONNECTORS PREINSTALLED!! ONLY WHITE, BLACK AND GREEN WIRES WILL NEED TO BE ATTACHED TO INCOMING LINES!!**

1. Check local electrical codes before installation. Use only 120 Volt 60hz power supply.
2. Be sure power is turned off at breaker or fuse box. Turning switch off is not sufficient to prevent electrical shock!!
3. Remove old light fixture.
4. The new fixture mounts best on standard 4" octagonal electrical box. If your box is an odd size, you may need to purchase an additional base in a proper size from an electrical supplier. Check size carefully before attempting to mount fixture.



5. Slide the black foam gasket over the white, black and green wires. It seals the base to the wall when installed, helping keep moisture out.
6. See diagram above:
  - A: Using wirenuts, connect white wire from fixture to white wire from house.
  - B: Connect black wire from fixture to black wire from house.
  - C: Connect green ground wire from motion detector to green ground wires from fixture and house. In the event your wiring has no ground wire, contact a qualified electrician to provide suitable ground.
  - D: All wirenuts installed to connect wired should be taped in place with electrical tape to assure they cannot come off accidentally at a later time.
7. Install base of lamp to the 4" octagonal base using included screws. In the event your box is deep in the walls, too deep for included screws, you may obtain longer screws from local hardware store. Make sure you match threads correctly.

8. Wiring portion is now complete, so you can install bulbs. Again, double check wall switch is in off position and power is shut off at breaker.



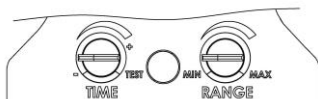
## OPERATION

<b>Test Mode</b>	Activate the photocell and allow the motion detector to function in daylight for time setting.
<b>Auto Mode</b>	Turn knob from 30 seconds to 10 minutes as needed.
<b>Manual Override Mode</b>	Turn the wall switch <b>Off-On twice within 2 seconds</b> , the lights will come on and stay on. After 6 hours, this option will automatically return to Auto Mode.
<b>Manual Override to return to Auto Mode</b>	During the light-on period in manual override mode, turn the wall switch <b>Off-On once within 1 second</b> , this option will reset sensor to Auto Mode.
<b>Temporary On Mode</b>	Turn the wall switch <b>Off-On once within 1 second</b> , the lights will come on to support users' immediate need(light on based on "Time" setting). Time will be reset to extend the lights on.
<b>Temporary On to return to Auto Mode</b>	During the light-on period in temporary on mode, turn the wall switch <b>Off-On three times within 3 seconds</b> , this option will reset sensor to Auto Mode.
<b>LED Indicator</b>	<ol style="list-style-type: none"> <li>1. During the warm-up time, LED is on until warm-up finish.</li> <li>2. During Test Mode, LED is the indicator to show user in the detection zone. When the sensor is triggered, the light is on, and LED starts flash. When user is out of detection zone, LED stops flash.</li> <li>3. LED is always flash slowly to warn the intruder.</li> </ol>

## SET-UP AND ADJUSTMENT

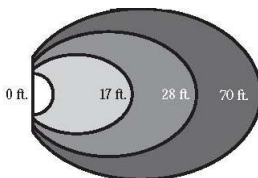
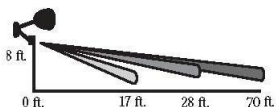
Follow these steps to set up your security light for best operation.

1. Turn power switch on and wait 60 seconds for the system's circuitry to stabilize.
2. Turn the "Time" knob to the fully counter clockwise direction.
3. Turn the "Range" control all the way in a counter clockwise direction.
4. Aim the control module to the desired target area. Have a person stand approximately in the center of the target area moving slightly. Moving arms up and down is usually sufficient.
5. Slowly rotate the "Range" knob clockwise until the lights go on. You may adjust the "Range" control either way to the desired sensitivity level.
6. Turn the **TIME** knob clockwise to adjust how long you want the lights to stay on after the unit is activated. The maximum (full clockwise) is about 10 minutes. The minimum (full counter clockwise) is about 30 seconds.



## SPECIFICATIONS

SIDE VIEW FOR AIMING UNIT



Sensor Range	Up to 70 ft.(21m)
Sensing Angle	180 degree + Downward detection
Power Consumption	4 watts maximum (control module only)
Power Requirement	110/120 volts 60 Hz
Load Rating	500 watts maximum (Incandescent only)
Operating Modes	TEST, AUTO, MANUAL, and Temporary ON Mode
Delay Control	30 seconds to 10 minutes (approximately)
LED Indicator	1 piece LED for Test Mode indicator & intruder watcher

## TROUBLESHOOTING

### Lights do not come on at all:

1. Make sure the breaker for the fuse is in the on position.
2. Make sure the switch in the house is turned on.
3. Check to see there is power to the motion detector on the black and white wires from the house.
4. Make sure the lamps being used are working. Faulty bulbs, or fiber washer at bottom of screw-type bulbs will prevent proper contact.
5. Check all wiring and connections.
  - A: All white wires
  - B: Black house wire to black motion detector wire.
  - C: Ground wires.

### Lights stay on all night

1. The dusk-to-dawn photocell feature. Make sure daylight is normal (N) position for motion detection.
2. Check all wiring and connections.
  - A: All white wires
  - B: Black house wire to black motion detector wire.
  - C: Ground wires.
3. Check to make sure each lamp is minimum 40 watts and total does not exceed total 500 Watts.

### Motion Detector triggers on with motion, and stays on:

1. Move floodlights away from motion detector head, or use lower wattage lamps.
2. If mounted on slope, aim slightly upward if slope is upward. If on downward slope, aim motion detector head severely downward, and slowly raise if necessary. Adjust during day using test mode.
3. Adjust Range sensitivity adjustment. Do not use this adjustment to compensate for poor aiming.

4. Aim motion detector head lower, away from moving busy areas such as sidewalks and streets.

**Motion Detector comes on randomly, or blinks in test mode.**

1. Move floodlights away from motion detector head, or use lower wattage lamps.

2. Aim motion detector head lower.

3. Make sure motion detector head is not aimed at heating/cooling ducts, metal sheds, pools of water, windows, or smooth walls.

4. Adjust Range sensitivity setting.

5. Make sure motion detector is mounted on firm surface, as mechanical vibrations can cause false triggering.

NOTE: Occasionally, in severe frigid temperatures flows of warm air passing the motion detector may cause light to cycle on and off due to extreme temperature change. This is not a sign of a problem. This infrequent occurrence will not affect normal operation of unit.

**Not enough or too much detection range**

1. Adjust Range sensitivity setting to desired level.