

# INSTRUCTIONS

## STL360H/L, STL360HB/L INSTALLATION



RAB Lighting is committed to creating high-quality, affordable, well-designed and energy-efficient LED lighting and controls that make it easy for electricians to install and end users to save energy. We'd love to hear your comments. Please call the Marketing Department at 888-RAB-1000 or email: [marketing@rablighting.com](mailto:marketing@rablighting.com)



STL360HB/L



STL360H/L

### IMPORTANT

#### READ CAREFULLY BEFORE INSTALLING FIXTURE. RETAIN THESE INSTRUCTIONS FOR FUTURE REFERENCE.

RAB fixtures must be wired in accordance with the National Electrical Code and all applicable local codes. Proper grounding is required for safety. THIS PRODUCT MUST BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE INSTALLATION CODE BY A PERSON FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE PRODUCT AND THE HAZARDS INVOLVED.

**WARNING: Make certain power is OFF before installing or maintaining fixture. No user serviceable parts inside.**

**CAUTION: TURN OFF ALL POWER AT CIRCUIT BREAKER/FUSE PANEL. The total lighting load connected to Stealth must not exceed 8 amps 277V (LED load). To switch more wattage an electrician can install a relay. Line Carrier Remote Control Systems such as X-10 or Leviton are incompatible with sensors and cause false activations.**

**DO NOT INSTALL SENSORS ON A CIRCUIT THAT FEEDS MOTOR LOADS LIKE KITCHEN APPLIANCES, HVAC EQUIPMENT, WASHER/DRYER, OR GARAGE DOOR OPENERS. Sensor must be below and as far as possible away from lights. Sensor functions best when the direction of expected movement is across its detection pattern, not towards the sensor. Mount 6–12 feet high for optimum range and detection.**

## HOW DO THE SCANNING LED DETECTION INDICATORS WORK?

Scanning LEDs serve as a deterrent by indicating a security device in operation. They also show the STL360's mode of operation.

### Automatic Mode

When the STL360 is "On Guard" in Auto mode, three red LEDs scan continuously day and night, except during detections (*at which time the controlled lights will go on and LEDs will be off*).

### Test Mode

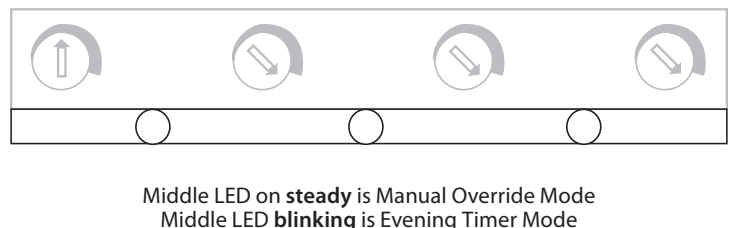
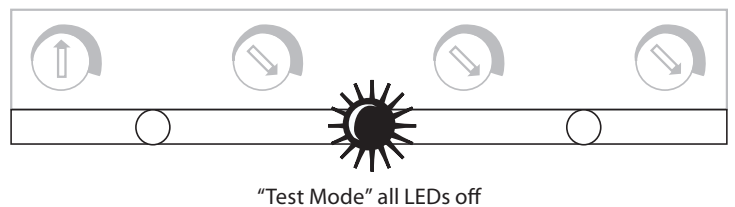
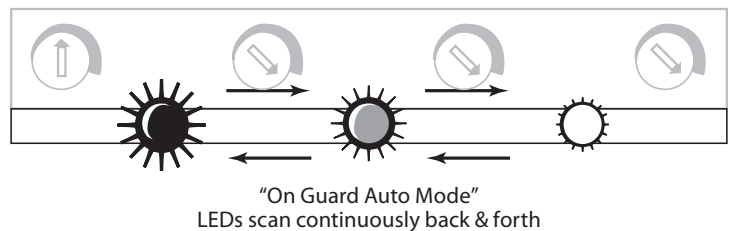
When the sensor is in "Test Mode" all of the LEDs will be off.

### Manual Override Mode

When the sensor is ready for "Manual Override Mode" the middle LED will be on steady.

### Evening Timer Mode

When the sensor is ready for "Evening Timer Mode" the middle LED will be blink.



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### SETTINGS

#### How long do the lights stay on?

Lights remain on as long as there is movement within the protection zone. Once the zone is vacated lights can be adjusted to remain on approximately 5 seconds up to 12 minutes. Since the lights are on only when needed, and the sensor uses only one watt. The Stealth is extremely energy efficient.

#### Can outdoor lights still be turned on with the light switch?

Yes. STL360 can be controlled by a conventional indoor switch or circuit breaker. STL360 operates in the auto mode unless changed. Lights can be turned on or off manually at night only with the Manual Override Mode.

#### Wall Switch Manual Override (to keep lights on)

Flip the switch twice slowly (off-on-off-on) within 1-2 seconds. If you set this during the sensor will become "ready" for the Manual Override Mode and will start Manual Override at dusk.

#### Evening Timer (to keep lights on, and is repeated every night)

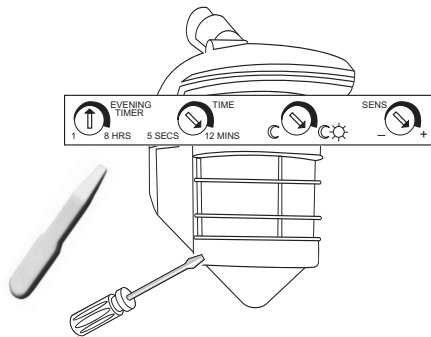
Flip the switch three times slowly (off-on-off-on-off-on) within 1½-3 seconds. You can set this during the day and the Evening Timer Mode will begin at dusk.

#### To Resume Automatic Mode

Switch power off for at least 10 seconds, then back on.

#### Will STL360 detect animals?

STL360 may detect large animals. Having animals trigger the sensor can give property a "lived-in" look. However, you can limit animal detection by turning down the sensitivity knob and/or placing the blinders provided on the lower part of the forward lens.



#### How do you make adjustments to the sensor?

Use the adjustment tool provided, or a screwdriver with a 1/8" wide blade. To adjust the controls on the front of the sensor see page 5.

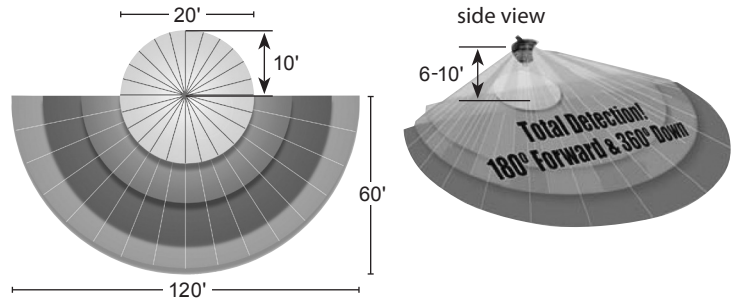
### CHOOSING A LOCATION

The best location is where the sensor can "see" all paths of movement. The sensor may be wall or soffit mounted. As distance from the sensor increases, larger movement will be required for

detection. For instance, at 10 feet, a half step will be enough, while at 50 feet several steps will be necessary for detection.

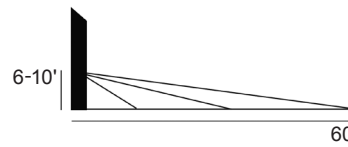
#### How large an area does STL360 protect?

Two powerful detectors combine to give the STL360 180° x 60' wide with 60' forward range plus superb 360° downward detection below and to all sides.

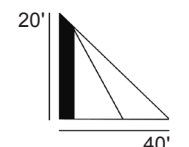


#### Mounting Height

Mounting at 6-10' above the ground allows maximum range. If the sensor is mounted above 15' high, the usable range is reduced.



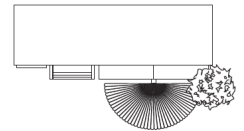
Maximum Range



Reduced Range

#### Difficult Locations

Sensor may be triggered by unwanted movement or heat source, such as a swaying tree, road traffic, dryer vent, swimming pool or hot tub.



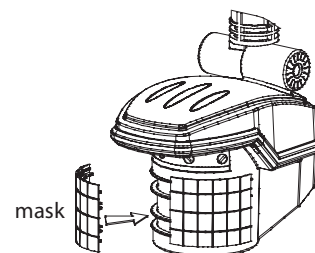
#### To improve performance in difficult locations:

- Reduce sensitivity by turning the SENS knob counterclockwise



and/or...

- Mask lens in the direction of the unwanted movement or heat source using the lens mask provided or opaque tape.



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### CHOOSING A LOCATION (cont'd)

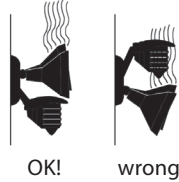
#### Mounting Stability

Mount sensor on stable surface. Do not mount on a tree or pole that will move in the wind.



#### Light vs. Sensor Position

- Make sure sensor and lights are mounted firmly. If they move when touched, tighten all screws.
- Make sure heat from lights is not triggering sensor. Sensor must be located below and as far away as possible from its lights.

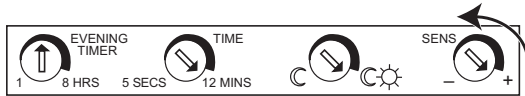


#### Locations Near Roads

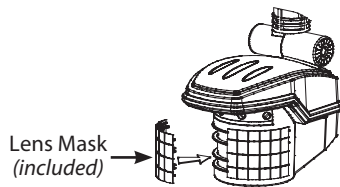
Cars and passing traffic may activate the sensor if it is aimed at the road.

#### To Improve Performance in Difficult Locations:

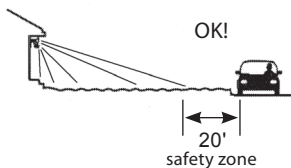
- Reduce sensitivity by turning the SENS knob counterclockwise,



- Mask lens in the direction of the traffic using the lens mask provided or opaque tape. *(Lens Mask can be broken along lines to desired size)*



- Make sure that sensor is not aimed at traffic. The sensor should be aimed down so that the maximum range of the sensor ends at least 20' from the road. This will avoid detection of passing trucks and cars, or the air currents they create.



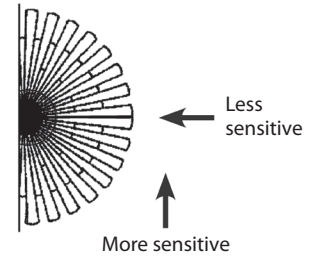
#### Mount Level

The sensor should be mounted level from side to side and pointed at the area where you desire coverage. If tilted, part of the detection zone may be high in the air over people's heads.



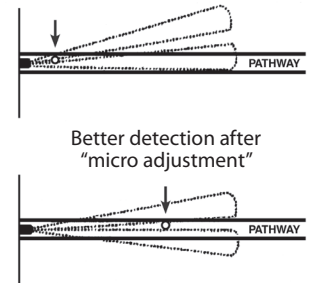
#### Locate for Movement Across Pattern

Check that movement is not directly towards sensor. Sensor will see movement ACROSS its pattern move quickly. Check that movement far away and directly towards sensor is not entirely within one zone. To fix, change the sensor angle or location.



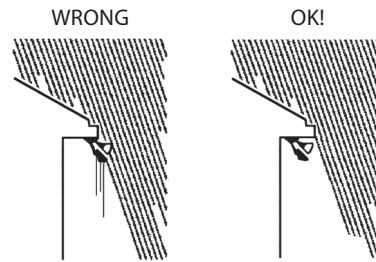
#### Location Over a Pathway

If the sensor is located over a pathway so all movement is directly toward it, range may appear limited. "Micro Adjust" sensor by moving sideways 1/4" or so, which may reposition the zones enough to allow earlier detection.



#### Choose a Protected Location

Mount sensor in protected area. The more protected the mounting location, the less chance of lights turning on occasionally during rain, snow and windstorms. This could happen because the sensor is detecting dramatic changes in temperature.



## ASSEMBLY AND WIRING

STL360 floodlight kits come pre-wired and assembled on the RAB CU4 EZ plate, allowing for mounting on round, rectangular or octagonal surface or recessed boxes.

#### Mounting

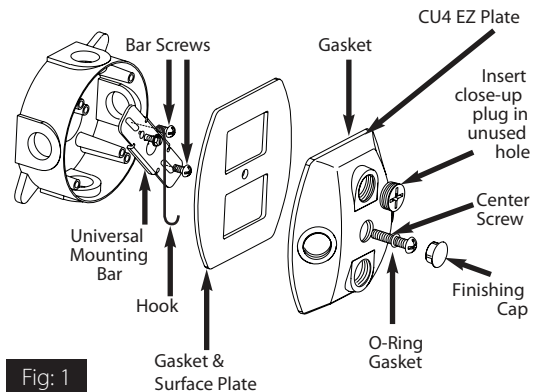


Fig: 1

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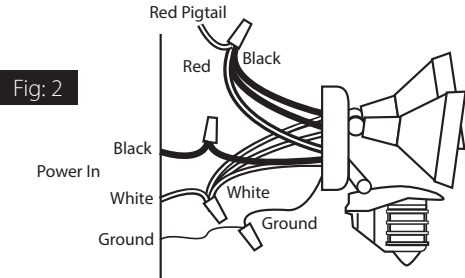


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### ASSEMBLY AND WIRING (cont'd)

#### Wiring

Red pigtail is only used to switch remote or additional fixtures.

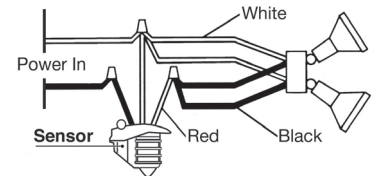


1. Attach the Universal Mounting bar with the screws provided to the junction box. If you are attaching your STL360 kit to a surface mount weatherproof box, you must use with the metal mounting plate with gasket.
2. **Easy Wiring Tip:** Use the "S" shaped Hands Free Hanging Hook to hold the CU4 EZ Plate during wiring.
3. Bring power leads and sensor kit leads through holes in gasket and plate into junction box.
4. Strip 1/2" of insulation from all leads.
5. Attach ground wire(s) to junction box grounding screw. Connect as shown in wiring diagram as shown in **Fig. 2**.
6. Twist on wire nuts. Secure with electrical tape.
7. Align CU4 EZ Plate and metal surface plate with gasket (for use with surface mounted junction boxes) to ensure proper seal. Tighten CU4 EZ Plate center screw (make sure O-Ring gasket is on the screw) to attach CU4 EZ Plate to the box.
8. Insert plastic Finishing Cap in the center of the CU4 EZ Plate for a weatherproof seal.
9. Use silicone sealant around plate and all opening to ensure a weather proof seal. Seal all unused conduit entries on surface junction box.
10. Screw in light bulbs. Turn on power. Conduct walk test to adjust sensor response (see page 6).

- To install a STL360 Sensor with separately purchased floodlights, start at #1.
- To install STL360 Pre-wired Floodlight Kits refer to **Fig. 2**.

1. Screw the threaded arms of each floodlight into the RAB CU4 EZ Plate. (See **Fig. 1**.)

2. Screw the threaded arm of the sensor into the bottom hole of the CU4 EZ Plate. Sensor should be below and as far away from the floodlights as possible.
3. Attach the Universal Mounting bar with the screws provided to the junction box. If you are attaching your STL360 kit to a surface mount weatherproof box, you must use the metal mounting plate with gasket.
4. Use the "S" shaped Hands Free Hanging Hook to hold the EZ Plate during wiring.
5. Bring power leads and sensor kit leads through holes in gasket into junction box.
6. Attach ground wire(s) to junction box grounding screw.
7. Position CU4 EZ Plate and metal surface plate with gasket (required for mounting on surface junction boxes.) (See **Fig. 1**.)
8. Strip 1/2" of insulation from all leads. Connect as shown in wiring diagram.
9. Twist on wire nuts. Secure with electrical tape.
10. Make sure all unused openings in CU4 EZ Plate are closed with plugs (provided).
11. Use silicone sealant around plate and all openings to ensure a weather proof seal. Seal all unused conduit entries on surface junction box.
12. Screw in light bulbs. Turn on power.
13. Conduct walk test to adjust sensor response (see page 6).

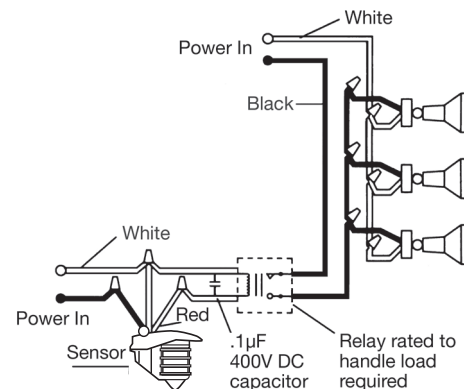


#### Multiple Sensors

Multiple sensors may be wired together, but doing this will make problems difficult to troubleshoot. Single sensors that control their own lights will give a more accurate location of movement and trouble-free operation.

#### Multiple Fixtures

Multiple fixtures may be wired to a single sensor. To handle loads greater than 1000 watts, a qualified electrician should install a relay.



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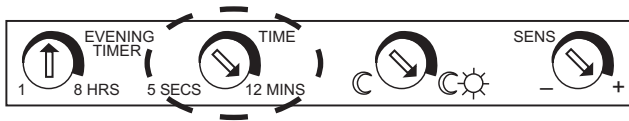
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### Power Quality

It is not recommended to install sensors on a circuit that also feeds motor loads such as HVAC equipment, kitchen appliances, or garage door openers. The Stealth circuit is surge and transient protected to IEC specifications. However, if voltage varies significantly from 120 volts, the sensor may malfunction. This may occur on circuits with motor loads.

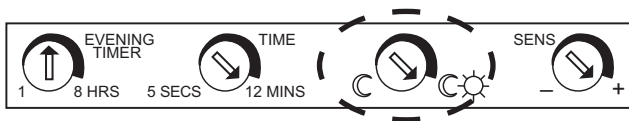
## ADJUSTING THE SETTINGS

### Time



Sets the time that lights will remain on after the detection zone is vacated. Adjustable from approximately 5 seconds to 12 minutes. The factory setting is 12 minutes.

### Photocell



For night-only operation, turn the knob completely counter-clockwise to (to the MOON symbol). For 24-hour operation turn the knob all the way clockwise to the MOON/SUN symbol. Adjust counterclockwise to have the sensor come on later at dusk, clockwise to have it come on earlier. The Factory Setting is Night-only (MOON). If you set Evening Timer while set to 24 hour operation Evening Timer will begin immediately after flipping switch.

### Sensitivity



Increases or decreases the responsiveness and range of the sensor (adjustable from 30% to 100%). The Factory Setting is 100%.

### Evening Timer



The STL360 provides an alternative to normal motion-activated lighting. The EVENING TIMER can keep lights on continuously – without motion – for 1 to 8 hours after dusk. This is great for evening activities requiring continuous light. During vacations the

EVENING TIMER provides a “lived-in” look by simulating an occupant turning lights on at dusk, and then off at bedtime.

To activate the EVENING TIMER, flip the wall switch controlling the sensor three times slowly (off-on-off-on-off-on) within 3 seconds. If you activate the EVENING TIMER during daytime, the middle LED should start blinking, indicating that the EVENING TIMER will start when dusk is detected.

Choose the length of time you want continuous lighting. For example, if you set the EVENING TIMER to “8”, the sensor will keep lights ON continuously for 8 hours after dusk. Once 8 hours have passed, the sensor will revert to motion activated mode. At dawn, the photocell will detect light and prevent lights from turning on during the daytime. The Evening Timer Mode will continue until you de-activate it.

If you do not want to use the EVENING TIMER, do NOT flip the switch 3 times, as described above.

To de-activate the EVENING TIMER, switch the sensor OFF for at least 10 seconds, then ON again. Sensor will be in Automatic Mode (after completing the 30 sec warm-up period).

You can affix this label (right), provided, to your indoor light switch plate for easy reference.

**RAB STEALTH360**  
**To Keep Lights On:**  
Switch off-on-off-on within 2 seconds. Resets to Auto Mode at dawn.  
**To Set Evening Timer:**  
To keep lights on for 1-8 hours after dusk, set the Evening Timer knob on the sensor, then flip this switch off-on-off-on-off-on within 3 seconds.  
**To Resume Auto Mode:**  
Switch off for 10 seconds, then back on.

## SENSOR MODES

### Automatic Mode

Lights will turn on when there is movement within the detection zone after dusk.



### Evening Timer Mode

Keeps lights on for 1-8 hours after dusk. Sensor then reverts to Automatic Mode until dawn. If you set the Evening Timer Mode during daylight, the sensor will be prepared to turn on at dusk and remain on for the number of hours you set. When the sensor is in “Ready for Evening Timer Mode”, the middle LED will blink 3 times, pause and repeat. Set the Evening Timer by flipping the switch that operates the sensor 3 times within 3 seconds (off-on-off-on-off-on).





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### SENSOR MODES (cont'd)

#### Test Mode

The Test Mode will allow you to test the sensor during the day regardless of the photocell setting. To enter Test Mode, turn time setting to 5 sec on the unit. Turn power off for 10 secs then back on. There is a 30 second warm-up period, then the Test Mode starts. During the warm-up, the lights stay on continuously and LEDs are off. During Test Mode the LEDs remain off. The sensor will stay in Test Mode until the detection zone is vacated for one minute.



During the Test Period, the sensor will keep lights on for 5 seconds each time it detects movement in its detection zone. Perform the walk test and make any adjustments needed. Vacate the detection zone for one minute or more to end Test Mode. Scanning LEDs will appear when test mode ends. Set back to desired time setting after testing complete.

#### Manual Override Mode

The STL360 has a "protected" Manual Override that requires a double-flip of the light switch so momentary power problems do not interfere with normal sensor operation.

By flipping the switch that operates the sensor twice (*off-on-off-on*) within 2 seconds you will override the sensor to keep lights on continuously until dawn.

If you set the Manual Override Mode during daylight, the sensor will be prepared to turn on at dusk and remain on until dawn. This is a handy feature if you leave home for the day and you want the lights on to greet you when you return. When the sensor is in "Ready for Manual Override Mode" the middle LED will be on.



"Ready for Manual Override Mode"  
Middle LED on

#### To Resume Automatic Mode

Switch OFF the power for at least 10 seconds, then turn it ON again. Sensor will reset to Automatic Mode after completing the warm-up period.

#### Daytime (24-HOUR) Operation of Manual Override

If you set Manual Override while set to 24 hour operation, lights will come on and remain on continuously. Lights will not turn off at dawn.

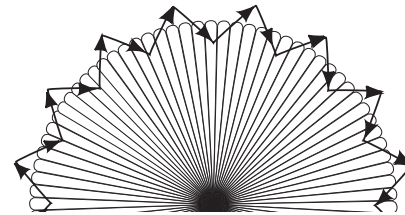
### WALK TESTING

STL360's full coverage pattern reduces the need for aiming and adjustment. The purpose of the Walk Test is to check and adjust the coverage pattern. The STL360 must be manually set into Test Mode (*explained at left*).

#### To enter Test Mode

Turn Time setting to 5 seconds and turn off sensor for 10 seconds. After a warm up period of 30 seconds the LEDs will be off.

1. Aim the sensor at the traffic pattern you want to detect. Sensor will detect any movement ACROSS its pattern most effectively.
2. Start outside the pattern and walk across the pattern until the lights go on. As distance from the sensor increases, it will take more movement to be detected.



3. Adjust sensor aiming as necessary to improve coverage. Make sure sensor is level.
4. Sensitivity may be decreased with the SENS knob to detect a limited area or if the sensor is being activated by wind, foliage, traffic or animals, or increased to cover a larger area. (*See page 6 to adjust sensor settings.*) The lens mask can also be used to drastically reduce coverage, or allow undetected movement from some directions.
5. STL360 is factory set for night only operation. For 24 hour operation, turn the photocell control completely toward the SUN/MOON setting. Turn counter clockwise to have the sensor come on later at dusk, clockwise to have it come on earlier.
6. Repeat steps 1-5 until you are satisfied with coverage. Vacate the detection zone for 1 minute and then turn the settings back to desired time delay. Your sensor is now ready for operation.

### TECHNICAL TIPS

#### Lights Do Not Turn Off

1. Make sure that the sensor is not in Manual Override Mode. Turn sensor OFF for 10 seconds, then back ON. The Sensor will be go through 30 second warm up period where the lights are on then will go into Automatic Mode with lights off and ready to detect movement.

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### TECHNICAL TIPS (cont'd)

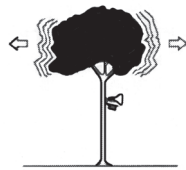
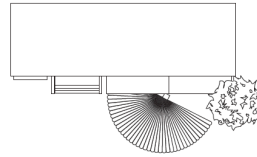
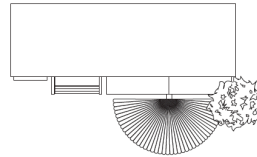
2. Make sure that the sensor is not in Evening Timer Mode. Turn power OFF for 10 seconds. (Refer to Step #1).
3. Make sure sensor is not aimed at or mounted over something that would move or change temperature such as waving branches, water, air conditioners, windows or heating vents even on neighboring property. You can test for infrared sources in the area by placing a box or bag over the sensor. Put sensor into test mode. Lights should stay off. Wave your hand inside bag in front of sensor. Lights should go on and then time out. If sensor operates properly when covered, check items #4-8.

#### Problem:

Sensor is triggered by unwanted movement or heat source.

#### Solution:

1. Aim sensor away from movement, or
2. Mask lens in the direction of the source
3. Lower sensitivity control setting
4. Make sure sensor and lights are mounted firmly and do not move even slightly when touched. If they move, tighten all screws.
5. Make sure sensor is not mounted on an unstable object such as a tree or pole that will move in the wind.



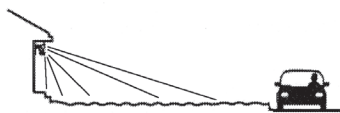
**Problem:** Movement of tree triggers sensor.

**Solution:** Mount on stable surface.

6. Was sensor wired hot (with power on etc)? If so, circuitry may have been damaged.
7. Make sure sensor is not aimed within 20 feet of a road.

**Problem:** Passing cars activate sensor.

**Solution:** A 20 foot safety zone and lower sensitivity are recommended to avoid activation from passing cars.



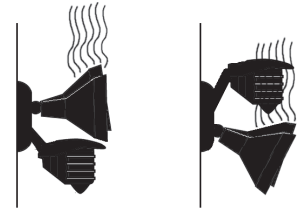
8. Make sure heat from lights is not triggering sensor. Make sure the sensor is below and as far as possible away from lights.

### Lights Turn On and Off Inappropriately

1. Make sure the sensor is installed on its own dedicated circuit, free of motor loads such as HVAC equipment, kitchen appliances or garage door openers.
2. It is not recommended to wire sensors in parallel. More than one sensor wired together makes them difficult to troubleshoot. Disconnect multiple sensors and test separately.

3. Keep all people completely out of the detection pattern to make sure the sensor is not detecting them.
4. Make sure sensor is located below and as far as possible from its lights. Heat from the lights may trigger the sensor.

**Solution:** Move sensor below and away from the lights.

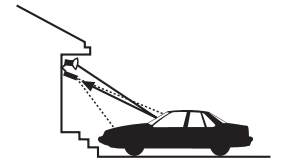


OK!

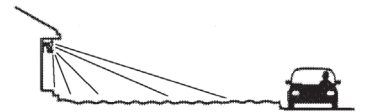
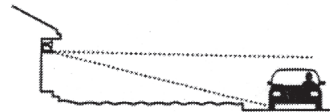
WRONG

5. Make sure lights are not reflecting back into sensor. Check for white or reflective surfaces close to the sensor.

**Solution:** Aim sensor away from reflective objects, or move the objects and lower sensitivity.



6. Make sure sensor is not aimed within 20 feet of a road or sidewalk. Passing cars will activate sensor.



**Solution:** A 20 foot safety zone and reduced sensitivity are recommended to avoid activation from passing cars.

7. Heavy rain, snow or high winds may activate the sensor occasionally. Reduce sensitivity control slightly until problem stops.
8. Moths can be attracted to the lights and fly close to the sensor causing triggering. Reducing the sensitivity may help.
9. Check Solutions #3, 4, 5, 6, 7 and 8 under "Lights Do Not Turn Off", beginning on page 6.

### Lights Do Not Turn On

1. Check that lamps and fixtures work. Compare wiring to the wiring diagram in this manual. Check that the power is on.
2. If installing during daylight, LED will go into automatic mode after 30 sec warm up period and will not work during daylight if the photocell is turned to the night only position (moon symbol).

If you require a test mode, turn time setting to 5 seconds and turn the power off at least 10 seconds and back on again.

# INSTRUCTIONS

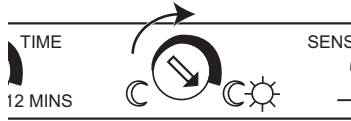
## STL360H/L, STL360HB/L INSTALLATION



RAB Lighting is committed to creating high-quality, affordable, well-designed and energy-efficient LED lighting and controls that make it easy for electricians to install and end users to save energy. We'd love to hear your comments. Please call the Marketing Department at 888-RAB-1000 or email: marketing@rablighting.com

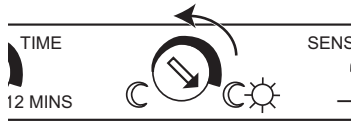
### TECHNICAL TIPS (cont'd)

If you require the sensor to operate both day and night, turn the SUN/MOON control knob clockwise to the sun and moon symbol.



- Check that lights from another source, such as adjacent porch lights, garden lights or street lights are not in the sensor's view. The sensor's photocell may detect the light and deactivate "daylight".

If you desire the sensor to operate in higher ambient light levels, turn the SUN/MOON control knob counter clockwise toward the sun symbol.



- Was sensor wired hot? If so circuitry may have been damaged.

### Lights Turn Off Too Quickly

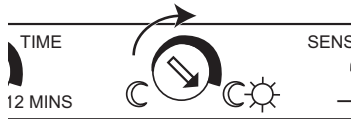
- Check if sensor is being "tricked" by reflected light. If lights controlled by the sensor shine or reflect into the photocell (*located behind the lens*) the unit will go on briefly, see its own light, and turn off "thinking" that it is daytime:



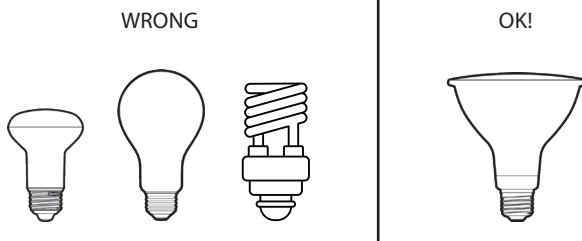
#### Problems:

Lights reflect into photocell  
Lights shine directly into photocell

**Solution:** Adjust SUN/MOON knob slightly clockwise, to allow operation at higher ambient light levels. Alternatively, move the lights or reflectors or mask the lens in the direction of the lights and/or reflections.



- Check if "R" lamps, non-reflector "A" lamps or self-ballasted PL lamps are being used in non-enclosed lampholder. If so, switch to reflector PAR floodlight lamps so the sensor is not affected by stray light. If using PAR floodlights, consider using lower wattage, energy saving lamps.



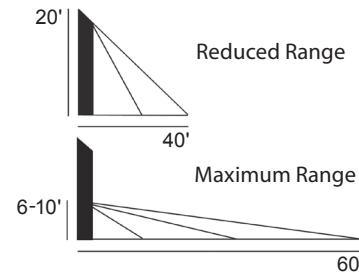
### Range Appears Limited

- Check that the sensor is level from side to side and pointed at the area you desire. If unit is tilted, part of the detection zone may be high in the air over people's heads.

**Solution:** Position sensor exactly level from side to side.

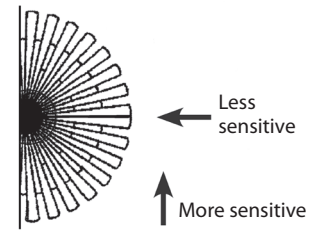


- Check that the sensor is not mounted too high. If mounted above 20', much of the usable range will be lost.



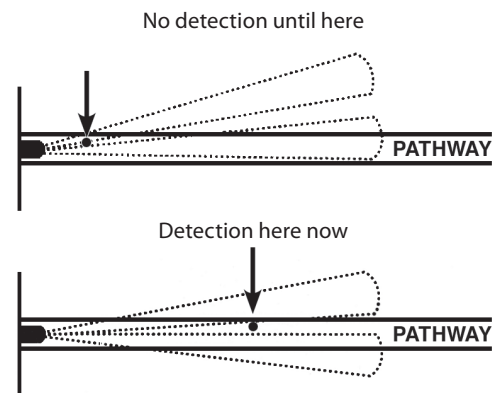
**Solution:** Mounting at 6' to 10' allows maximum range.

- Check that movement is not directly towards sensor. Sensor will see movement across its pattern more quickly. To fix, move the sensor.



- Check that movement far away and directly towards sensor is not entirely within one zone.

**Problem:** Sensor will not detect until movement crosses zones.  
**Solution:** "Micro Adjust" sensor by moving sideways 1/4". This may move the zones to allow earlier detection.





# INSTRUCTIONS

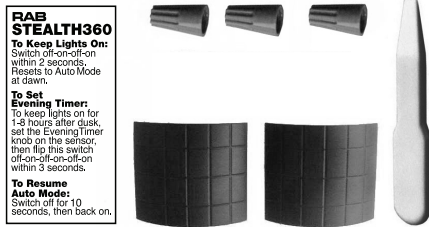
## STL360H/L, STL360HB/L INSTALLATION



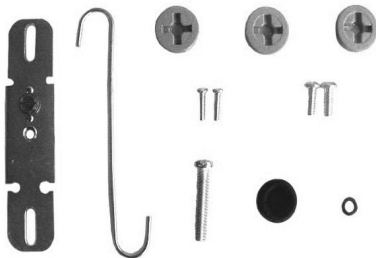
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### CONTENTS OF ACCESSORY KIT

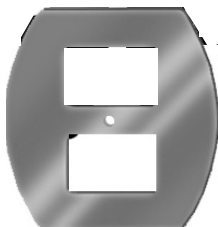
- 2 Lens Masks
- Indoor Switchplate Label
- 3 Wire Nuts
- Adjustment Tool
- Mylar lens Mask



- Crossbar with Green Ground Screw
- Hanging Hook
- 1/2" Close Up Plugs (3)
- Slotted Screws (4)



- Finishing Cap
- O-ring Gasket
- Center Mounting Screw
- Metal Surface Mounting Plate with Gasket



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