

# Heath®/Zenith

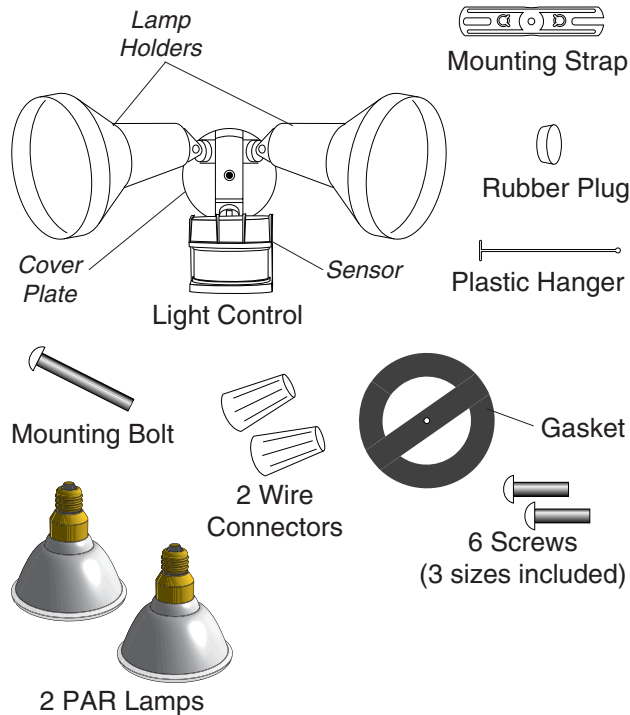
## Motion Sensor Light Control with Protective Lamp Shields

Model CB-2011

### Features

- Turns on lighting when motion is detected.
- Automatically turns lighting off.
- Photocell keeps the lighting off during daylight hours.

This package includes:



### Requirements

- The Light Control requires 120-volts AC.
- If you want to use the Manual Mode, the control must be wired through a switch.
- **Some codes require installation by a qualified electrician.**
- This product is intended for use with the enclosed gasket and with a junction box marked for use in wet locations.

## OPERATION

Mode:	On-Time:	Works:	Day	Night
<b>Test</b>	5 Sec		x	x
<b>Auto</b>	1, 5, 20 min.		x	
<b>Manual</b>	Until Dawn*		x	

\* resets to Auto Mode at dawn.

Note: When first turned on wait about 1 1/2 minutes for the circuitry to calibrate.

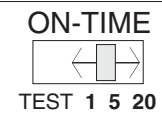
### TEST

Put ON-TIME switch on the sensor bottom to TEST.



### AUTO

Put the ON-TIME switch in the 1, 5, or 20 minute position.

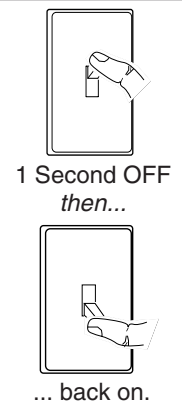


### MANUAL MODE

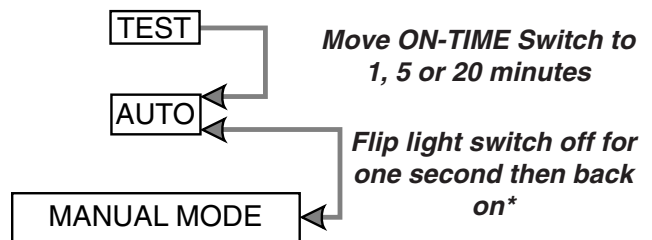
Manual mode only works at night because daylight returns the sensor to AUTO.

Flip the light switch off for one second then back on to toggle between AUTO and MANUAL MODE.

Manual mode works only with the ON-TIME switch in the 1, 5, or 20 position.



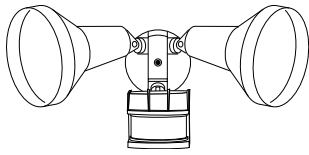
### Mode Switching Summary



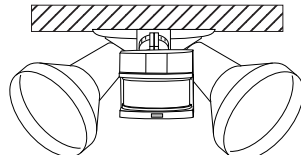
\* If you get confused while switching modes, turn the power off for one minute, then back on. After the calibration time the control will be in the AUTO mode.

# INSTALLATION

For easy installation, select an existing light with a wall switch for replacement.



Wall Mount

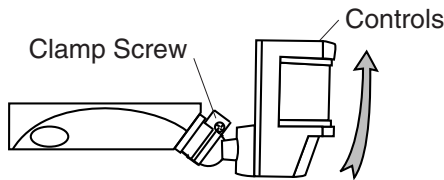


Eave Mount

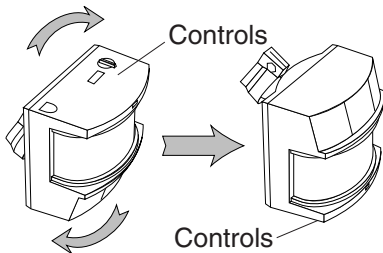
For under eave installation, the sensor head must be rotated as shown in the next two steps for proper operation and to avoid the risk of electrical shock.

For eave mount only:

- ❑ Swing the sensor head towards the clamp screw joint.



- ❑ Then rotate the sensor head clockwise 180° so the controls face down.

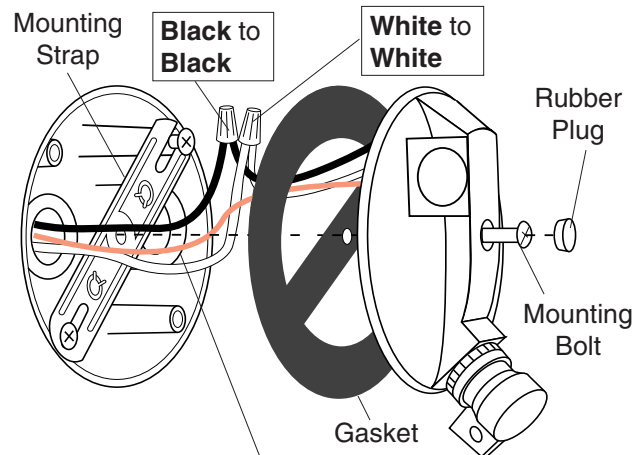


If the sensor pops out of the ball joint, loosen the clamp screw and push the sensor back into the ball joint. Tighten the clamp screw when done.

## WIRE THE LIGHT CONTROL.

- ❑ Turn power off at the fuse or circuit breaker.
- ❑ Remove the existing light fixture.
- ❑ Install the mounting strap as shown using two screws that fit your junction box.
- ❑ The plastic hanger can be used to hold the fixture while wiring. The small end of the plastic hanger can be threaded through the hole in the center of the cover plate. The small end then goes into one of the slots on the mounting strap.
- ❑ Route the Light Control's wires through the large gasket hole.

- ❑ Twist the junction box wires and fixture wires together as shown. Secure with wire connectors.

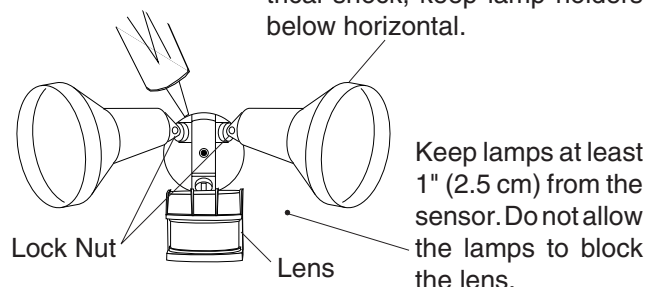


Junction box ground wire to green ground screw on fixture.

## MOUNT THE LIGHT CONTROL.

- ❑ Align the Light Control cover plate and cover plate gasket. Secure with the mounting bolt.
- ❑ Push the Rubber Plug firmly into place.
- ❑ If a wet location junction box was not used, caulk the wall plate mounting surface with silicone weather sealant.

To avoid water damage and electrical shock, keep lamp holders below horizontal.



- ❑ Adjust the lamp holders by loosening the lock nuts but do not rotate the lamp holders more than 180° from the factory setting. When screwing in the floodlamps, do not overtighten.

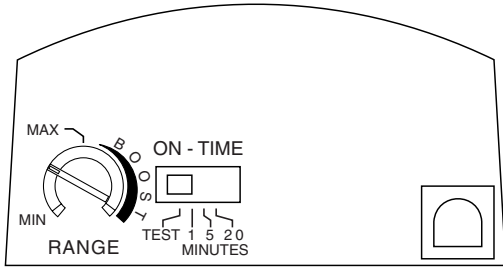
**CAUTION: To avoid fire or burn hazards, keep fixture at least 2" (51mm) from combustible materials. Do not aim at objects closer than 3' (1m).**

# TEST AND ADJUSTMENT

- ❑ Turn on the circuit breaker and light switch.

**NOTE:** Sensor has a 1 1/2 minute warm up period before it will detect motion. When first turned on or when switching modes wait 1 1/2 minutes.

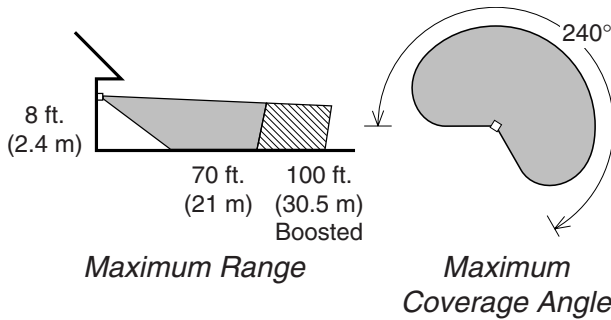
- ❑ Turn the RANGE control to the mid position and the ON-TIME control to the TEST position.



Bottom of Sensor

**Avoid aiming the sensor at:**

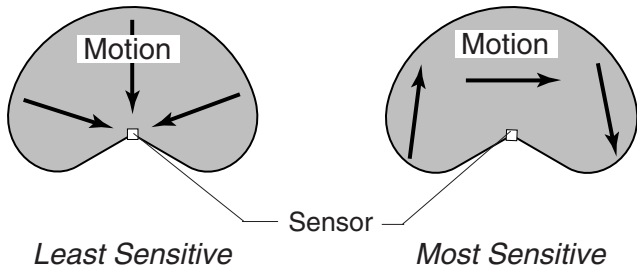
- Objects that change temperature rapidly, such as **heating vents and air conditioners**. These heat sources could cause false triggering.
- Areas where **pets or traffic** may trigger the control.
- **Nearby large, light-colored objects** reflecting light may trigger the shut-off feature. Do not point other lights at the sensor.



Maximum Range

Maximum Coverage Angle

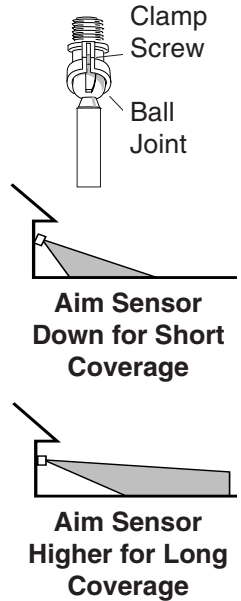
The detector is less sensitive to motion directly towards it.



Least Sensitive

Most Sensitive

- ❑ Loosen the clamp screw in the sensor ball joint and gently rotate the sensor.
- ❑ Walk through the coverage area noting where you are when the lights turn on. Move the sensor head up, down, or sideways to change the coverage area. **Keep the sensor at least 1" (2.5 cm) away from the lamps.**
- ❑ Adjust the RANGE as needed. RANGE set too high may increase false triggering.
- ❑ **Secure the sensor head's aim by tightening the clamp screw.** Do not over-tighten the screw.
- ❑ Set the amount of TIME you want the lights to stay on after motion is detected (1, 5, or 20 minutes).



Aim Sensor Down for Short Coverage

Aim Sensor Higher for Long Coverage

## SPECIFICATIONS

- Range . . . . . Up to 70 ft. (21 m); 100 ft. (30.5 m) with Range Boost. [varies with surrounding temperature]
  - Sensing Angle . . . . . Up to 240°
  - Electrical Load . . . . . Up to 300 Watts Maximum Incandescent [Up to 150 Watts Maximum each lamp holder].
  - Power Requirements. 120 VAC, 60 Hz
  - Operating Modes . . . . . TEST, AUTO and MANUAL MODE
  - Time Delay . . . . . 1, 5, 20 minutes
- DESA Specialty Products™ reserves the right to discontinue products and to change specifications at any time without incurring any obligation to incorporate new features in products previously sold.

# TROUBLESHOOTING GUIDE

SYMPTOM	POSSIBLE CAUSE
<b>Lights will not come on.</b>	<ol style="list-style-type: none"> <li>1. Light switch is turned off.</li> <li>2. Flood light is loose or burned out.</li> <li>3. Fuse is blown or circuit breaker is turned off.</li> <li>4. Daylight turnoff is in effect (<i>recheck after dark</i>).</li> <li>5. Incorrect circuit wiring, if this is a new installation.</li> <li>6. Re-aim the sensor to cover desired area.</li> </ol>
<b>Lights come on in daylight.</b>	<ol style="list-style-type: none"> <li>1. Light Control may be installed in a relatively dark location.</li> <li>2. Light Control is in Test. (<i>Set control switch to an ON-TIME position.</i>)</li> </ol>
<b>Lights come on for no apparent reason.</b>	<ol style="list-style-type: none"> <li>1. Light Control may be sensing small animals or automobile traffic (<i>re-aim sensor</i>).</li> <li>2. Range is set too high. (<i>Reduce Range setting.</i>)</li> </ol>

SYMPTOM	POSSIBLE CAUSE
<b>Lights stay on continuously.</b>	<ol style="list-style-type: none"> <li>1. A flood lamp is positioned too close to the sensor or pointed at nearby objects that cause heat to trigger the sensor. (<i>Reposition the lamp away from the sensor or nearby objects.</i>)</li> <li>2. Light Control is pointed toward a heat source like an air vent, dryer vent, or brightly-painted heat-reflective surface. (<i>Reposition sensor. Reduce Range.</i>)</li> <li>3. Light Control is in Manual Mode. (<i>Switch to Auto.</i>)</li> </ol>
<b>Lights flash on and off.</b>	<ol style="list-style-type: none"> <li>1. Heat or light from the lamps may be turning the Light Control on and off. (<i>Reposition the lamps away from the sensor.</i>)</li> <li>2. Heat being reflected from other objects may be affecting the sensor. (<i>Reposition sensor.</i>)</li> <li>3. Light Control is in the Test mode and warming up. (<i>Flashing is normal under these conditions. Turn Boost off.</i>)</li> </ol>
<b>Lights flash once, then stay off in Manual Mode.</b>	<ol style="list-style-type: none"> <li>1. Sensor is detecting its own lights. (<i>Reposition lamps to keep area below the sensor relatively dark.</i>)</li> </ol>

## TECHNICAL SERVICE

(Do Not Send Products)

If you experience a problem, follow this guide. You may also want to visit our Web site at: [www.desatech.com](http://www.desatech.com). If the problem persists, call\* for assistance at **1-800-858-8501**, 7:30 AM to 4:30 PM CST (M-F). You may also write\* to: DESA Specialty Products™

P.O. Box 90004, Bowling Green, KY 42102-9004

ATTN: Technical Service Specialty Products

\* If contacting Technical Service, please have the following information available: Model Number, Date of Purchase, and Place of Purchase.

### No Service Parts Available for this Product

#### 15 YEAR LIMITED WARRANTY

This is a "Limited Warranty" which gives you specific legal rights. You may also have other rights which vary from state to state or province to province.

For a period of fifteen years from the date of purchase, any malfunction caused by factory defective parts or workmanship will be corrected at no charge to you. **Light bulbs are not covered.** To obtain a refund or a replacement, return the product to the place of purchase.

**Not Covered** - Repair service, adjustment and calibration due to misuse, abuse or negligence, light bulbs and other expendable items are not covered by this warranty. Unauthorized service or modification of the product or of any furnished component will void this warranty in its entirety. This warranty does not include reimbursement for inconvenience, installation, setup time, loss of use, or unauthorized service.

This warranty covers only DESA Specialty Products™ assembled products and is not extended to other equipment and components that a customer uses in conjunction with our products.

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