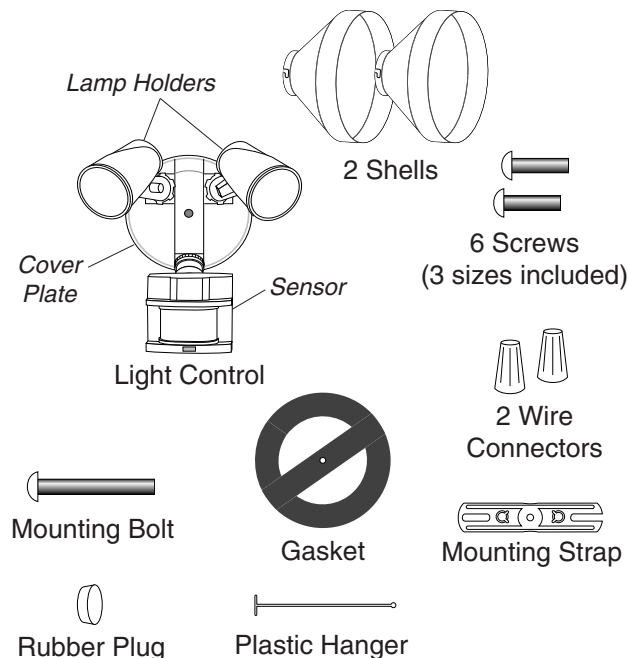# Atlas
Lighting Products

GUARDIAN PRO™
240 SERIES

Models MLGC240B
MLGC240W

Features
- Turns on lighting when motion is detected.
- Automatically turns lighting off.
- Dual Light Level
- Photocell keeps the lighting off during daylight hours.
- LED indicates motion was sensed (day or night).

This package includes:

Lamp Holders

2 Shells

6 Screws
(3 sizes included)

Cover Plate

Sensor

Light Control

2 Wire Connectors

Mounting Bolt

Gasket

Mounting Strap

Rubber Plug

Plastic Hanger

Requirements
- The Light Control requires 120-volts AC.
- If you want to use 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.
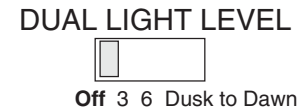
OPERATION

Mode:	On-Time:	Works:	Day	Night
Test	5 Seconds		x	x
Auto	1, 5, 20 min.			x
Manual	Until Dawn*			x
Accent	3, 6 Hr, to Dawn			x

* resets to Auto Mode at dawn.

Note: When first turned on wait about 1 $\frac{1}{2}$ minutes for the circuitry to calibrate.

TEST

Put ON-TIME switch on the sensor bottom to TEST and the Dual Light Level switch OFF.

ON-TIME

DUAL LIGHT LEVEL

TEST 1 5 20

Off 3 6 Dusk to Dawn

AUTO

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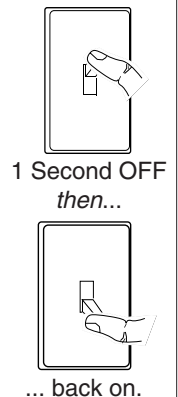
ON-TIME

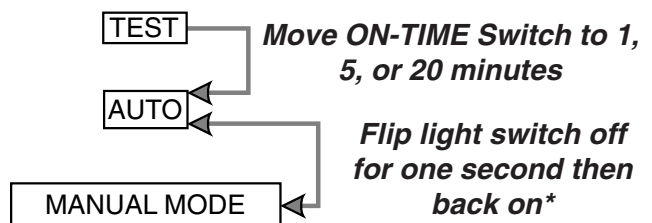**20 5 1** TEST

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.

1 Second OFF
then...

... back on.

Mode Switching Summary

TEST

AUTO

MANUAL MODE

Move ON-TIME Switch to 1, 5, or 20 minutes

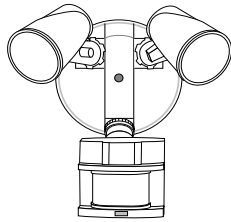*Flip light switch off for one second then back on**

* 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.
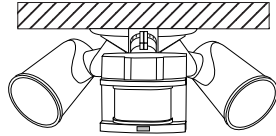
Dual Light Level Control

Light comes on half bright for selected time after dusk (Off, 3 hr., 6 hr., until dawn). If motion is sensed, the light turns on full bright for the ON-TIME (1, 5, or 20 minutes) then returns to dim mode.

INSTALLATION

For easy installation, select an existing light with a wall switch for replacement.
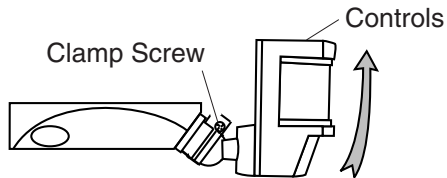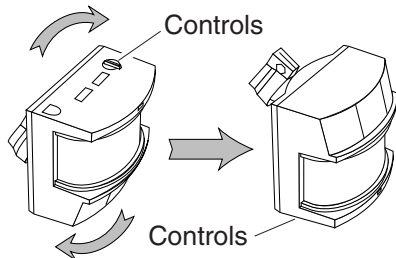
Wall Mount   **Eave Mount**

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:
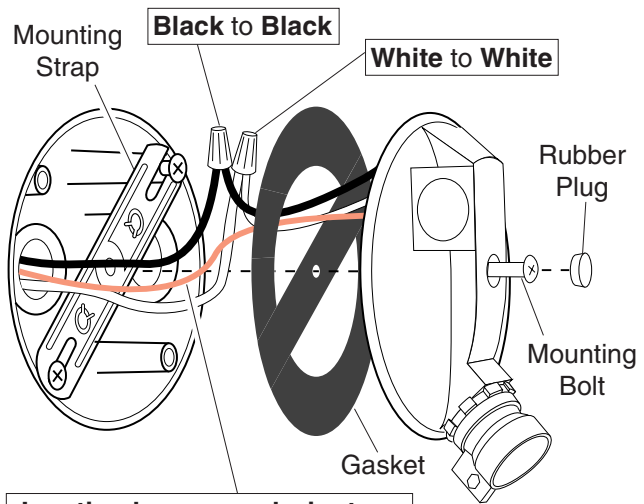
❒ Swing the sensor head towards the clamp screw joint.

Controls

Clamp Screw

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

Controls

Controls

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.
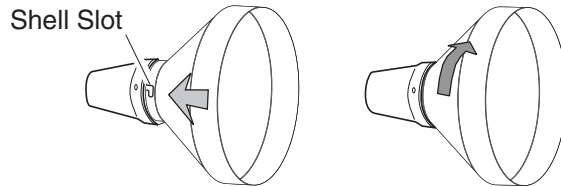
WIRE THE LIGHT CONTROL.

❒ **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 holes.
❒ Twist the junction box wires and fixture wires together as shown. Secure with wire connectors.

Mounting Strap

Black to **Black**

White to **White**

Rubber Plug

Mounting Bolt

Gasket

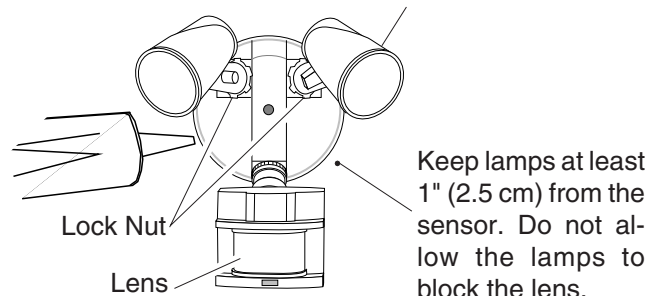**Junction box ground wire to green ground screw on fixture.**

MOUNT THE LIGHT CONTROL.

❒ Align the Light Control cover plate and cover plate gasket. Secure with the mounting bolt.
❒ Align the three slots in the decorative shell with the lamp holder pins. Push the shell in and then twist clockwise to lock. Repeat for other shell.

Shell Slot

❒ 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.

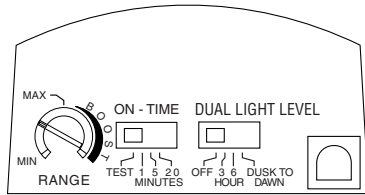To avoid water damage and electrical shock, keep lamp holders 30° below horizontal.

Keep lamps at least 1" (2.5 cm) from the sensor. Do not allow the lamps to block the lens.

Lock Nut

Lens

❒ 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.

TEST AND ADJUSTMENT

❏ **Turn on the circuit breaker and light switch.**

NOTE: Sensor has about 1 $\frac{1}{2}$ minutes warm up period before it will detect motion. When first turned on, wait about 1 $\frac{1}{2}$ minutes.
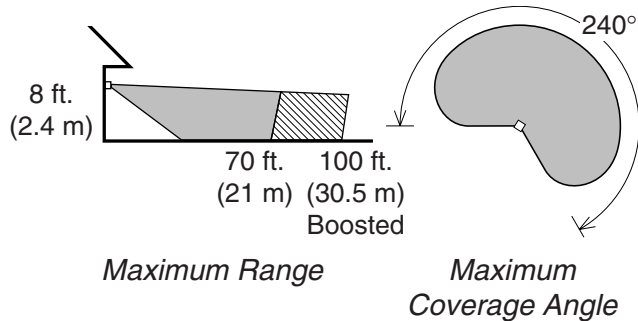
❏ Turn the RANGE control to the mid position, DUAL LIGHT LEVEL to OFF, and the ON-TIME control to the TEST position.
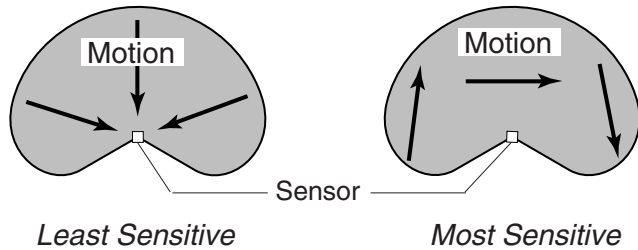
Bottom of Sensor

Avoid aiming the control 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.
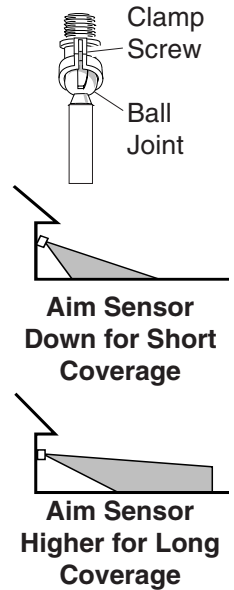
8 ft. (2.4 m)

70 ft. (21 m)   100 ft. (30.5 m) Boosted

240°

Maximum Range   *Maximum Coverage Angle*

The detector is most sensitive to motion across its field of view.

Motion   Motion

Sensor

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 by tightening the clamp screw.** Do not overtighten the screw.
❏ Set the amount of ON-TIME you want the lights to stay on after motion is detected (1, 5, or 20 minutes).
❏ Set the DUAL LIGHT LEVEL switch to the amount of time after dusk you want the lights on at low level (Off, 3, 6 Hrs., Dusk-to-Dawn).

Clamp Screw

Ball Joint

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 Incandescent Maximum [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
Dual Light Level . . . . Off, 3, 6 Hours, Dusk-to-Dawn

Atlas Lighting Products, Inc. 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

If you experience a problem with your Light Control, first follow this guide. For additional assistance write to:
Atlas Lighting Products, Inc. • Customer Service Department • P.O. Box 2348 • Burlington, NC 27216

SYMPTOM	POSSIBLE CAUSE
Lights will not come on.	1. Light switch is turned off. 2. Flood light is loose or burned out. 3. Fuse is blown or circuit breaker is turned off. 4. Daylight turn-off is in effect *(Recheck after dark)*. 5. Incorrect circuit wiring, if this is a new installation. 6. Re-aim the sensor to cover desired area.
Lights come on in daylight.	1. Light Control may be installed in a relatively dark location. 2. Light Control is in Test. *(Set control switch to an ON-TIME position)*.
Lights come on for no apparent reason.	1. Light Control may be sensing small animals or automobile traffic *(Re-aim sensor)*. 2. Range is set too high. *(Reduce Range)*. 3. Dual Light Level is on.

SYMPTOM	POSSIBLE CAUSE
Lights stay on continuously.	1. A flood lamp is positioned too close to the sensor or pointed at nearby objects that cause heat to trigger the sensor. *(Reposition the lamp away from the sensor or nearby objects)*. 2. Light Control is pointed toward a heat source like an air vent, dryer vent, or brightly-painted heat-reflective surface. *(Reposition sensor. Reduce Range)*. 3. Light Control is in Manual Mode. *(Switch to Auto.)*
Lights flash on and off.	1. Heat or light from the lamps may be turning the Light Control on and off. *(Reposition the lamps away from the sensor)*. 2. Heat being reflected from other objects may be affecting the sensor. *(Reposition sensor)*. 3. Light Control is in the Test mode and warming up. *(Flashing is normal under these conditions. Turn Boost off.)* 4. Light may be leaking through the floodlamp reflectors. *(Make sure the metal lamp protectors are installed)*.
Lights flash once, then stay off in Manual Mode.	1. Sensor is detecting its own lights *(Reposition lamps to keep area below sensor relatively dark)*.

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