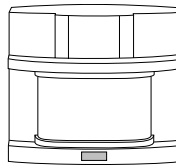


HeathZenith®

Replacement Motion Sensor

Model 5407



Features

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

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.**

OPERATION

Mode:	On-Time	Works:	Day	Night
Test	5 Seconds		x	x
Auto	1, 5, or 10 Minutes			x
Manual	To Dawn*			x

* resets to Auto Mode at dawn.

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

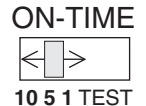
TEST

Put the ON-TIME switch on the bottom of the sensor in the TEST position.



AUTO

Put the ON-TIME switch in the 1, 5, or 10 minute position.

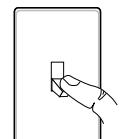


MANUAL MODE

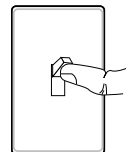
Manual mode only works at night because daylight returns the sensor to AUTO.

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 10 position.

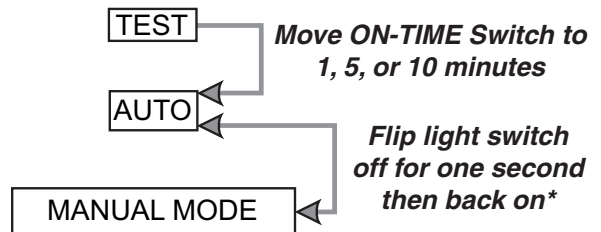


1 Second OFF then...



... back on.

Mode Switching Summary



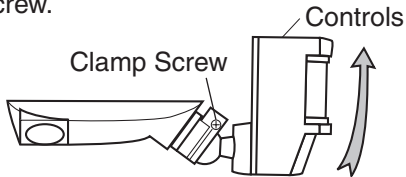
* If you get confused while switching modes, turn the power off for one minute, then back on. After the calibration time the control will be in the AUTO mode.

INSTALLATION

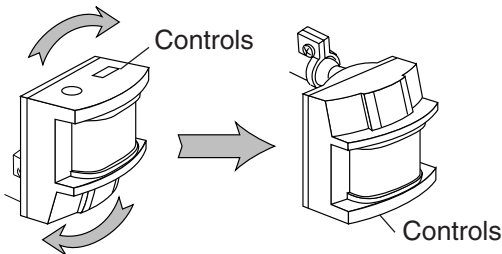
For under eave installation, the sensor head **must be rotated** as shown in the next two steps for proper operation and to avoid the risk of electrical shock.

For eave mount only:

1. Swing the sensor head towards the clamp screw.



2. Rotate the sensor head clockwise 180° so the controls face down.



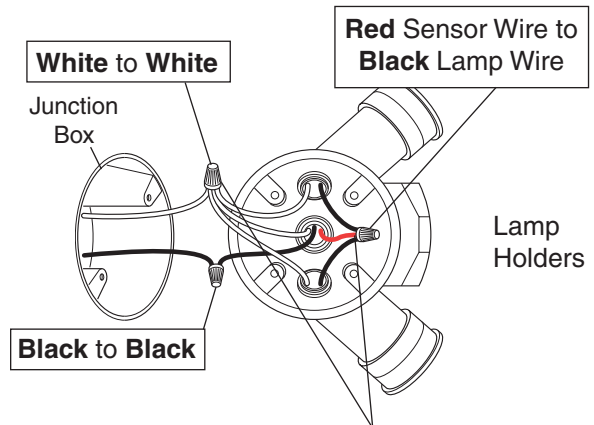
If the sensor pops out of the ball joint, loosen the clamp screw and push the sensor back into the ball joint. Tighten the clamp screw when done.

These instructions show the sensor wired to flood lamps. The **white sensor wire is neutral**. The **black sensor wire is hot**. The red wire is the switched "hot" wire. The **lighting load** (500 W, 4.2A max) is placed across the **white** and **red wires**.

Wire the Light Control

WARNING: Turn power off at the fuse or circuit breaker.

1. Remove the existing light fixture, if present.
2. After screwing the sensor into the wall plate, connect the junction box wires to the light control wires by twisting together and securing with wire connectors.



Optional: Connect additional load across the white and red wires. Total lighting load including lamp heads on fixture must not exceed 500W (4.2A).

Mount the Light

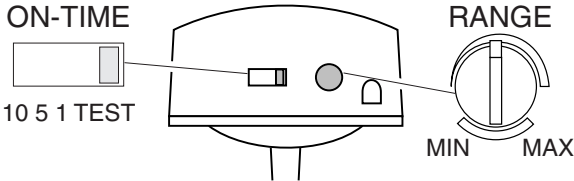
1. Follow the instructions that came with your light fixture for mounting and adjusting the light fixture.
2. Keep regular PAR-38 lamps at least 1" (25 mm) from the sensor. Halogen lamps should be kept at least 2" (51 mm) from the sensor.

TEST AND ADJUSTMENT

1. Turn on the circuit breaker and light switch.

NOTE: Sensor has a 1 1/2 minute calibration period before it will detect motion. When first turned on, wait 1 1/2 minutes.

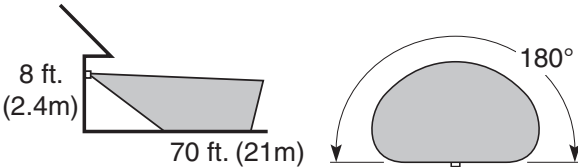
2. Turn the RANGE control to the mid position and the ON-TIME control to the TEST position.



Bottom of Sensor

Avoid aiming the control at:

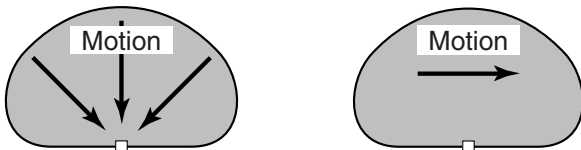
- Objects that change temperature rapidly, such as **heating vents and air conditioners**. These heat sources could cause false triggering.
- Areas where **pets or traffic** may trigger the control.
- **Nearby large, light-colored objects** reflecting light may trigger the shut-off feature. Do not point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



Maximum Range

Maximum Coverage Angle

The sensor is less sensitive to motion directly towards it, most sensitive to motion across its field of view.

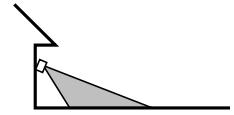
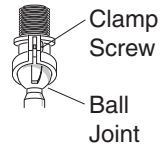


Least Sensitive

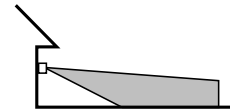
Most Sensitive

206443-01

3. Loosen the clamp screw in the sensor ball joint and gently rotate the sensor.
4. Walk through the coverage area noting where you are when the lights turn on (also, the LED will flash several times when motion is detected). 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.**
5. Adjust the RANGE as needed. RANGE set too high may increase false triggering.
6. **Secure the sensor head by tightening the clamp screw.** Do not over-tighten the screw.
7. Set the amount of TIME you want the lights to stay on after motion is detected (1, 5, or 10 minutes).



Aim Sensor Down for Short Coverage



Aim Sensor Higher for Long Coverage

WARNING: Risk of fire. Do not aim the lamps at a combustible surface within 3 ft. (1 m).

SPECIFICATIONS

- Range Up to 70 ft. (21 m) [varies with surrounding temperature].
- Sensing Angle Up to 180°
- Electrical Load Up to 500 Watt (4.2A) Maximum Incandescent [Up to 250 Watt maximum each lamp holder.]
- Power Requirements 120 VAC, 60 Hz
- Operating Modes TEST, AUTO and MANUAL MODE
- Time Delay 1, 5, 10 minutes
- Range Adjustable

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

SYMPTOM	POSSIBLE CAUSE
Lights stay on continuously.	<ol style="list-style-type: none"> 1. A 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>). 2. Light control is pointed toward a heat source like an air vent, dryer vent, or brightly-painted heat-reflective surface. (<i>Reposition sensor</i>). 3. Light control is in Manual Mode. (<i>Switch to Auto.</i>)
Lights flash on and off.	<ol style="list-style-type: none"> 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>). 2. Heat being reflected from other objects may be affecting the sensor. (<i>Reposition sensor</i>). 3. Light control is in the Test mode and warming up. (<i>Flashing is normal under these conditions</i>). 4. Light control is detecting a light source. (<i>Reposition Light control or lamp</i>).

TECHNICAL SERVICE

Please call 1-800-858-8501 (English speaking only) for assistance before returning product to store.

If you experience a problem, follow this guide. You may also want to visit our Web site at: www.hzsupport.com. If the problem persists, call* for assistance at **1-800-858-8501** (English speaking only), 8:00 AM to 5:00 PM CST (M-F). You may also write* to:

HeathCo LLC, P.O. Box 90045, Bowling Green, KY 42102-9045, ATTN: Technical Service

* 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

TWO 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 two years from the date of purchase, any malfunction caused by factory defective parts or workmanship will be corrected at no charge to you.

Not Covered - Repair service, adjustment and calibration due to misuse, abuse or negligence, light bulbs, batteries, 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, unauthorized service, or return shipping charges.

This warranty covers only HeathCo LLC assembled products and is not extended to other equipment and components that a customer uses in conjunction with our products.

THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY, REPRESENTATION OR CONDITION OF MERCHANT ABILITY OR THAT THE PRODUCTS ARE FIT FOR ANY PARTICULAR PURPOSE OR USE, AND SPECIFICALLY IN LIEU OF ALL SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES. REPAIR OR REPLACEMENT SHALL BE THE SOLE REMEDY OF THE CUSTOMER AND THERE SHALL BE NO LIABILITY ON THE PART OF HEATHCO LLC FOR ANY SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO ANY LOSS OF BUSINESS OR PROFITS, WHETHER OR NOT FORESEEABLE. Some states or provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. **Please keep your dated sales receipt, it is required for all warranty requests.**