

Heath/Zenith Secure Home™

DUALBRITE® Motion Sensing Coach Light

Items	Models
007677	SH-4144-AZ-B
063285	SH-4152-BK-A

Questions or problems? Before returning to your retailer, refer to the troubleshooting guide in this manual or call our technical service department at 1-800-858-8501 (English speaking only), 8:00 am to 5:00 pm, CST, Monday – Friday.

Features

- Light comes on when motion is detected.
- Automatically turns light off.
- Dusk Accent lighting.
- Photocell keeps the light off during daylight hours.

Package Contents

- Lantern
- Easy to use Universal Mounting Bracket
- Mounting Hardware
- Wire Connectors
- Some Models Include an Optional Decorative Tail Assembly

Before installation, record the model number from back of fixture below. Attach receipt in case of possible warranty issues.

Requirements

- The light control requires 120 volts AC.
- If you want to use Manual Mode, the control must be wired through a switch.
- **Some electrical codes require installation by a qualified electrician.**

OPERATION

Mode:	On-Time	Works: Day	Night
Test	5 Seconds	x	x
Auto	1, 5, or 10 Min		x
Manual	To Dawn*		x
Accent	3, 6 Hr, 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.

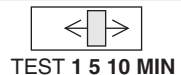
TEST

Set the ON-TIME switch on the bottom of the cover plate to TEST and the DUALBRITE® switch OFF.



AUTO

Set ON-TIME switch to 1, 5, or 10 minutes.

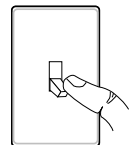


MANUAL MODE

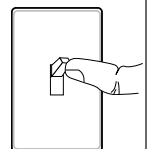
Manual mode only works at night because daylight returns the sensor to AUTO.

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.

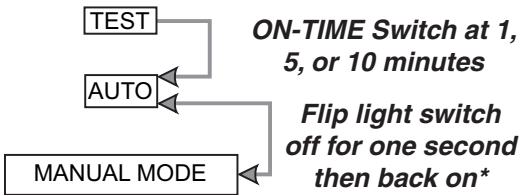


1 Second OFF then...



... back on.

Mode Switching Summary



* If you get confused while switching modes, turn the power off for 1 1/2 minutes, then back on. After the calibration time the control will be in the AUTO mode.

DUALBRITE® Dimmer Control

Light comes on half bright for selected time after dusk (Off, 3 hr., 6 hr., until dawn). Selecting OFF disables this feature. The motion sensing features will continue to work as described in this manual. If motion is sensed, the light turns on full bright for the ON-TIME (1, 5, or 10 minutes) then returns to dim mode.

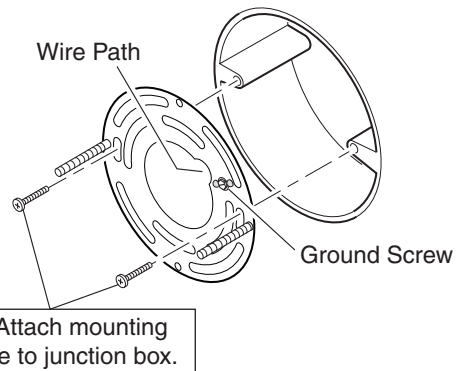
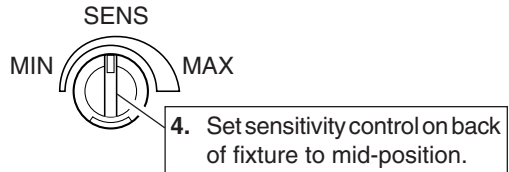
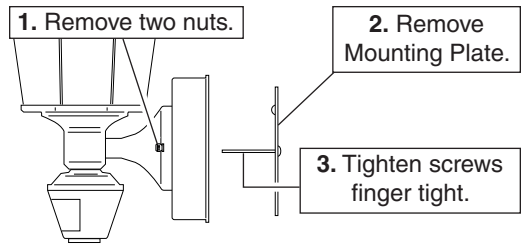
INSTALLATION

Estimated Installation Time: 30 minutes
Items needed for installation (not included):

- Phillips and flathead screwdrivers
- Pliers
- Safety glasses
- Silicone caulk
- Wire strippers/cutters
- Light bulb

For best performance, mount the fixture about 6 feet (1.8 m) above the ground.

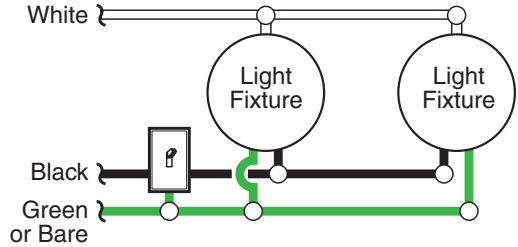
⚠ WARNING: Turn power off at circuit breaker or fuse.



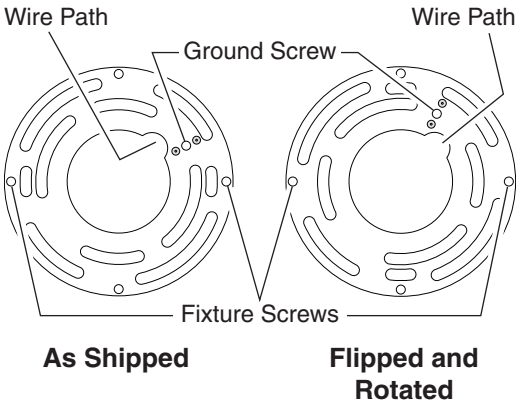
This fixture comes with a universal mounting bracket. It is pre-assembled on the fixture to fit the majority of junction box applications. However, if the slots on the mounting plate do not line up with the junction box screw holes:

1. Remove the fixture mounting screws from the mounting plate. *Note:* Do not remove the ground screw.
2. Attach ground wire "pigtail" to ground screw on mounting plate (See *Recommended Grounding Method* for additional information).
3. Flip the mounting plate over.

4. Rotate the mounting plate so the wire path is on the upper right. *Note:* The wire path on the mounting plate must be be located as shown below to allow the wires on the back of the fixture to pass through.
5. Reinstall the fixture mounting screws and attach the mounting plate to the junction box as shown.



Two Motion Lights



Twist the junction box wires and the fixture wires together as shown below. Secure with wire connectors. If you have a metal junction box, you may not need the green "pigtail". If you are unsure about the grounding method, consult your local building code.

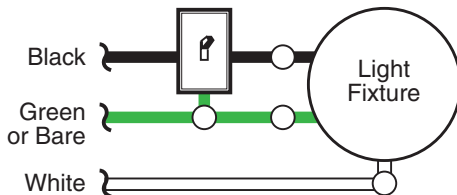
Connect the fixture wires to the wires in the junction box. Twist the wires together and secure with wire connectors.



WIRING

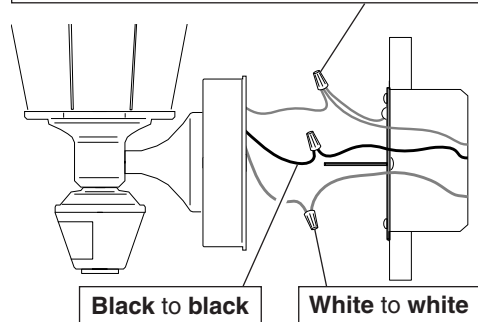
Note: All wiring should be run in accordance with the National Electrical Code through conduit or another acceptable means. **Contact a qualified electrician if there is any question as to the suitability of the system.**

CAUTION: DO NOT connect the RED wire unless you want to control other lights from the motion sensor.



One Motion Light

Recommended Grounding Method
Use a green ground "pigtail" (not provided) and twist one end together with the bare fixture wire and the box ground wire. Secure with a wire connector. Secure the other end of the "pigtail" with the GND screw on the mounting plate.



OPTIONAL WIRING

This fixture is provided with a sensor rated for 360 Watts. Since the fixture is only rated 100 Watts (180 Watts candelabra), 260 Watts (180 Watts candelabra) of additional load may be controlled by this sensor.

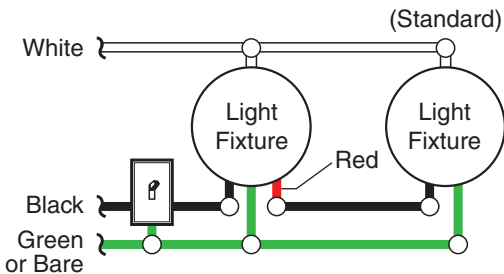
When determining what a fixture is rated for, do not simply look at the rating on the lamp in the fixture. Look at the marking which specifies the maximum lamp wattage for which the fixture is suitable.

Once you have selected the fixtures to be connected and determined their maximum ratings, add these ratings up. For instance, if you have 3 fixtures rated 100 Watts, 150 Watts, and 75 Watts respectively, you have a total load of 325 Watts.

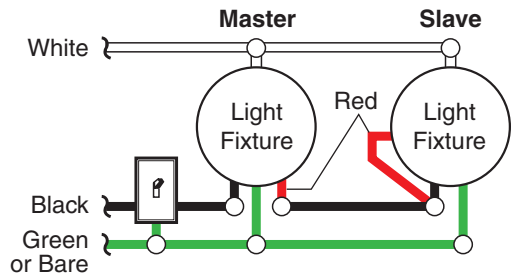
Wiring Diagram 1 – When wiring to control a standard light fixture: Strip the motion sensor's **red** wire and connect to the standard light's **black** wire. Connect all white wires together. Total fixture ratings must not exceed 360 Watts (3.0 A).

Wiring Diagram 2 – When wiring to control another motion sensing light fixture (Master / Slave): Strip the **red** wire in both light fixtures. Connect the **red** wire of the controlling (master) fixture to the **red and black** wires of the controlled (slave) fixture. Connect all white wires together. Total fixture ratings must not exceed 360 Watts (3.0 A).

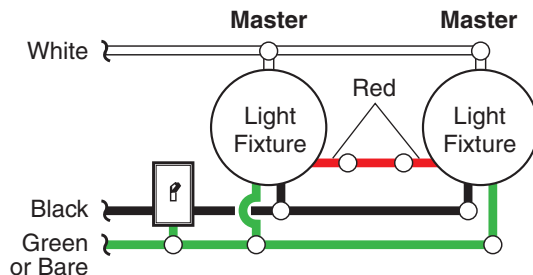
Wiring Diagram 3 – When wiring so either motion light turns on both motion lights (Master / Master): Strip the **red** wire in both light fixtures. Connect the **red** wire of one fixture to the **red** wire of the second fixture. *Note:* In most installations, an additional wire (same gauge as existing house wire) will have to be installed in the house to connect the two fixtures as master / master. Connect all white wires together and all black wires together. Total fixture ratings must not exceed 360 Watts (3.0 A).



Wiring Diagram 1



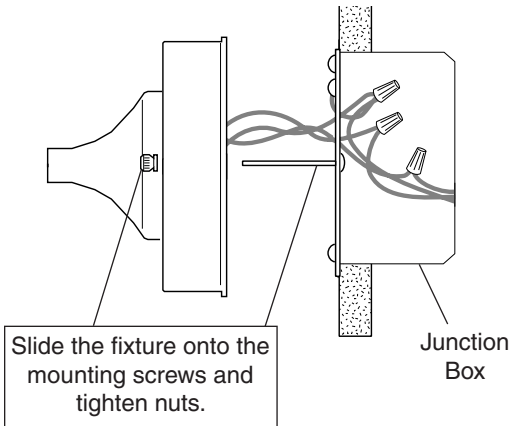
Wiring Diagram 2



Wiring Diagram 3

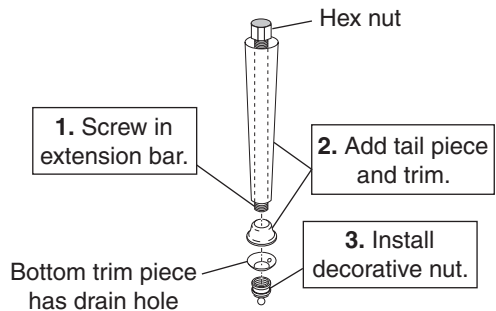
COMPLETE THE INSTALLATION

1. Stuff the wires into the junction box. Make sure the wires from the fixture go through the *wire path*, and no wires get pinched.

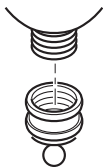


Optional Assembly

If so equipped, you may install the decorative tail as shown below.



2. **Caulk fixture mounting surface** with silicone weather sealant. You may want to wait until you have completed the tests and adjustments on page 6.
3. Install light bulb. See fixture markings for proper bulb type and wattage.
4. If so equipped, install the fixture top. Secure with decorative screws.
5. If you will not be installing the optional tail assembly, install the decorative nut onto the bottom of the fixture now.

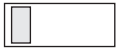


TESTING

1. 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 wait 1 1/2 minutes.

2. Switch the on-time to TEST position and DUALBRITE® switch to the OFF position.



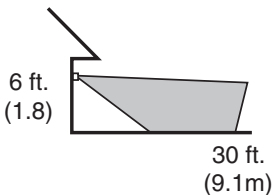
TEST 1 5 10 MIN
ON-TIME



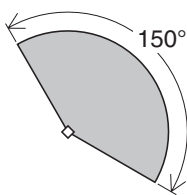
OFF 3 6 DUSK TO
HOUR DAWN

Avoid aiming the control at:

- **Pools of water** or 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 daylight may trigger the shut-off feature. Do not point other lights at the sensor.

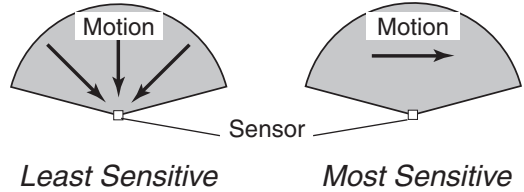


Maximum Range

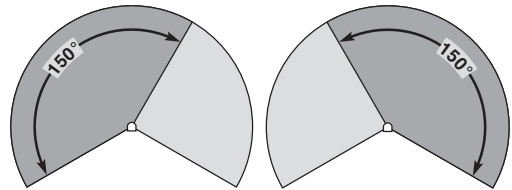
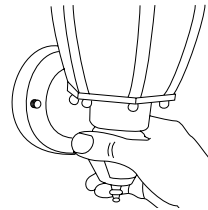


Maximum Coverage Angle

The detector is less sensitive to motion directly towards it and more sensitive to across motion.



3. Walk through the coverage area noting where you are when the lights turn on. Move the sensor head left or right to change the coverage area. *Note:* Grasp the sensor only as shown and turn the entire sensor. **Any other method may damage the sensor. Do not force it past the stops.**



Rotating Sensor Head to Change Coverage Area

4. If you need to change the sensitivity, temporarily remove the fixture and make the adjustment. Too much sensitivity may increase false triggering.
5. Set the amount of TIME you want the light to stay on after motion is detected. (1, 5, or 10 minutes).
6. Set the amount of time after dusk you want the lights on accent level.

SPECIFICATIONS

- Range Up to 30 ft. (9.1 m)
[varies with surrounding temperature]
- Sensing Angle Up to 150°
- Electrical Load See rating on fixture for maximum wattage
- Sensor Capacity Up to 360 Watts (3.0 A.)
Maximum Tungsten Incandescent
- Power Requirements 120 VAC, 60 Hz
- Operating Modes TEST, AUTO, and MANUAL MODE
- Time Delay 1, 5, 10 minutes
- DUALBRITE® Timer Off, 3, 6 hours, dusk-to dawn

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
Light will not come on.	<ol style="list-style-type: none"> 1. Light switch is turned off. 2. Bulb 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.
Light comes 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>)
Light comes 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. Sensitivity is set too high. (<i>Reduce sensitivity</i>.)

SYMPTOM	POSSIBLE CAUSE
Light stays on continuously.	<ol style="list-style-type: none"> 1. The sensor is pointed toward a heat source like an air vent, dryer vent, or brightly-painted heat-reflective surface. (<i>Re-aim sensor.</i>) 2. Light control is in Manual Mode. (<i>Switch to Auto.</i>) 3. Light control is in DUALBRITE® mode. 4. Sensitivity is set too high. (<i>Reduce sensitivity.</i>)
Light flashes on and off.	<ol style="list-style-type: none"> 1. Heat being reflected from other objects may be affecting the sensor. (<i>Re-aim sensor.</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

Please keep your dated sales receipt, it is required for all warranty requests.

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 MERCHANTABILITY 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.