

FRONT

PORTFOLIO  
Outdoor

# DUALBRITE® Motion Sensing Diecast Lantern

Items	Models
066799	PF-4192-BK
067208	PF-4192-WH
253370	PF-4197-WH



Meets the ENERGY STAR® guidelines when DUALBRITE® function is off.

**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), 7:30 am to 4:30 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 (X-bar)
- Mounting Hardware
- Wire Connectors

## 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.**

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

## OPERATION

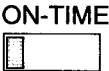
Mode:	On-Time	Works:	Day	Night
Test	5 Seconds		x	x
Auto	1, 5, or 10 Min			x
Manual	To Dawn*			x
Accent	3, 6 Hr, to Dawn			x

\* resets to Auto Mode at dawn.

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

### TEST

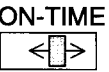
Set the ON-TIME switch on the bottom of the cover plate to **TEST**.



TEST 1 5 10 MIN

### AUTO

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



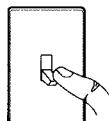
TEST 1 5 10 MIN

### MANUAL MODE

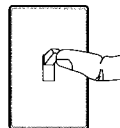
Manual mode only works at night because daylight returns the sensor to AUTO.

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.

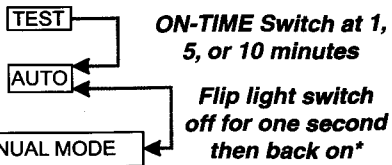


1 Second OFF then...



... 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

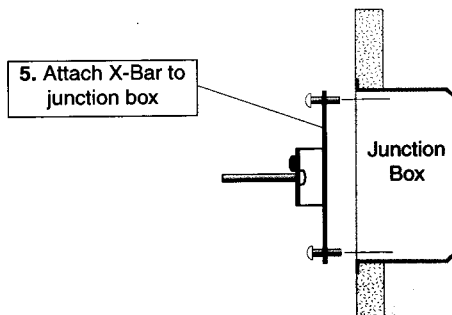
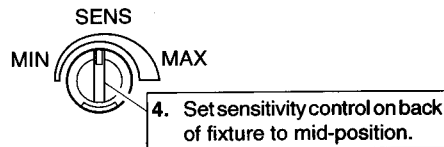
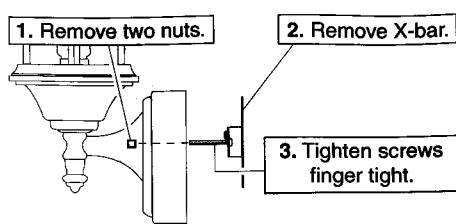
Estimated Installation Time: 30 minutes

Items needed for installation (not included):

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

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

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

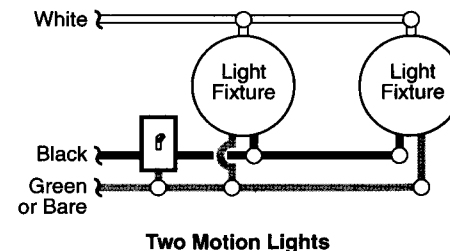
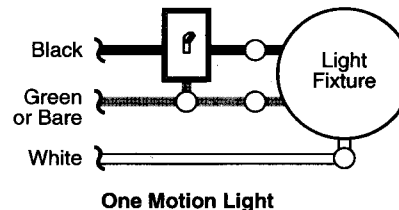


Due to the size and weight of the fixture, you may find it helpful to have an assistant hold the fixture in place while connecting the wires.

## 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.



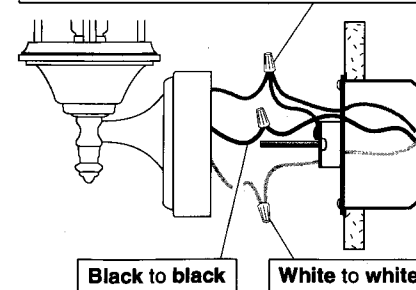
Twist the junction box wires and the fixture wires together as shown below. Secure with wire connectors. If you have a metal junction box, you may not need the green "pigtail". If you are unsure about the grounding method, consult your local building code.

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



### 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

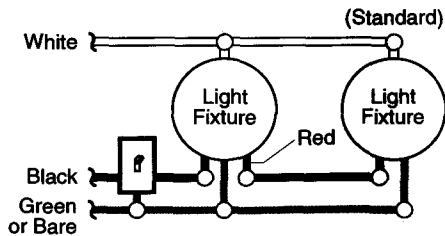
This fixture is provided with a sensor rated for 360 Watts. Since the fixture is only rated 100 Watts (180 Watts candelabra), 260 Watts (180 Watts candelabra) of additional load may be controlled by this sensor.

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.

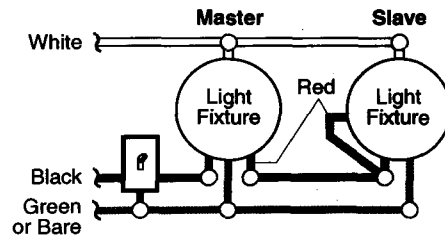
Once you have selected the fixtures to be connected and determined their maximum ratings, add these ratings up. For instance, if you have 3 fixtures rated 100 Watts, 150 Watts, and 75 Watts respectively, you have a total load of 325 Watts.

**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 1**



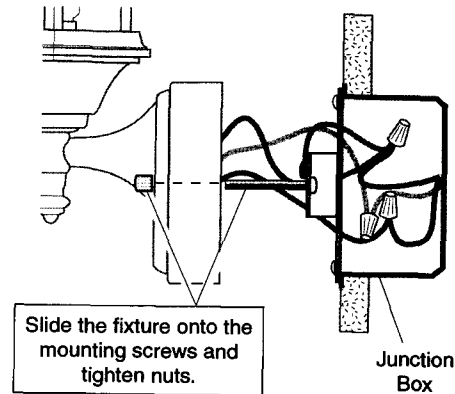
**Wiring Diagram 2**

It is also possible to wire two motion lights so that either fixture will turn on both lights at the same time (dual master system). It is recommended that only people with plenty of electrical experience attempt this configuration. Please call our customer service number (1-800-858-8501 - English speaking only) before attempting this wiring. **If the dual master wiring is not done correctly, it can destroy both motion sensing fixtures and void your warranty.**

## COMPLETE THE INSTALLATION

- Stuff the wires into the junction box. Make sure none of the wires get pinched.

- Install light bulb. See fixture markings for proper bulb type and wattage.
- Install the fixture top. Secure with decorative screws.
- After completing the tests on page 6, **caulk fixture mounting surface** with silicone weather sealant.



Slide the fixture onto the mounting screws and tighten nuts.

Junction Box

## TESTING

- 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.

**Note:** Meets the ENERGY STAR® guidelines when DUALBRITE® function is off.

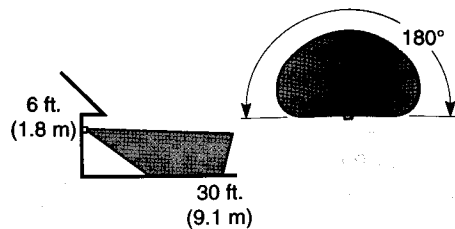
- Switch the on-time to TEST position and DUALBRITE® switch to the OFF position.

TEST 1 5 10 MIN  
ON-TIME

OFF 3 6 DUSK TO  
HOUR DAWN

### Avoid aiming the control at:

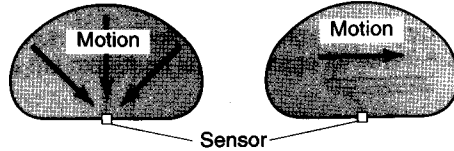
- Pools of water** or objects that change temperature rapidly, such as **heating vents and air conditioners**. These heat sources could cause false triggering.
- Areas where **pets or traffic** may trigger the control.
- Nearby large, light-colored objects** reflecting daylight may trigger the shut-off 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.



Least Sensitive

Most Sensitive

- Walk through the coverage area noting where you are when the lights turn on.
- If you need to change the sensitivity, temporarily remove the fixture and make the adjustment. Too much sensitivity may increase false triggering.
- Set the amount of **TIME** you want the light to stay on after motion is detected. (1, 5, or 10 minutes).
- 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 180°
- Electrical Load . . . . . See rating on fixture for maximum wattage.
- Sensor Capacity . . . . . Up to 360 Watt (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 hrs, 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"> <li>Light switch is turned off.</li> <li>Bulb is loose or burned out.</li> <li>Fuse is blown or circuit breaker is turned off.</li> <li>Daylight turn-off is in effect (<i>recheck after dark</i>).</li> <li>Incorrect circuit wiring, if this is a new installation.</li> </ol>
Light comes on in daylight.	<ol style="list-style-type: none"> <li>Light control may be installed in a relatively dark location.</li> <li>Light control is in Test. (<i>Set control switch to an ON-TIME position.</i>)</li> </ol>

SYMPTOM	POSSIBLE CAUSE
Light comes on for no apparent reason.	<ol style="list-style-type: none"> <li>Light control may be sensing small animals or automobile traffic (<i>Reduce sensitivity</i>).</li> </ol>
Light stays on continuously.	<ol style="list-style-type: none"> <li>The sensor is pointed toward a heat source like an air vent, dryer vent, or brightly-painted heat-reflective surface. (<i>Reduce sensitivity</i>.)</li> <li>Light control is in Manual Mode. (<i>Switch to Auto.</i>)</li> <li>Light control is in DUALBRITE® mode.</li> <li>Sensitivity is set too high. (<i>Reduce sensitivity.</i>)</li> </ol>
Light flashes on and off.	<ol style="list-style-type: none"> <li>Light control is in the Test mode and warming up. (<i>Flashing is normal under these conditions.</i>)</li> </ol>

# 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](http://www.hzsupport.com). If the problem persists, call\* for assistance at **1-800-858-8501** (English speaking only), 7:30 AM to 4:30 PM CST (M-F). You may also write\* to:

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

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

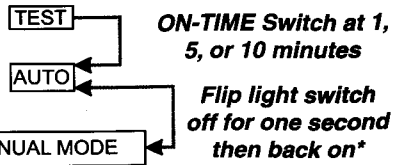
**Not Covered** - Repair service, adjustment and calibration due to misuse, abuse or negligence, light bulbs, batteries, and other expendable items are not covered by this warranty. Unauthorized service or modification of the product or of any furnished component will void this warranty in its entirety. 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.

## Mode Switching Summary



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### DUALBRITE® Dimmer Control

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## INSTALLATION

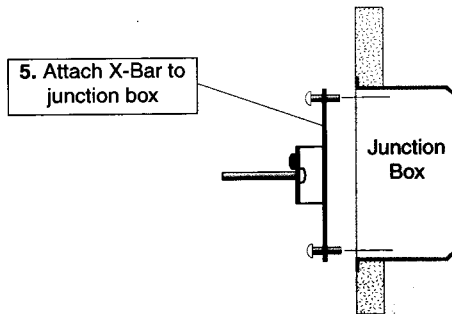
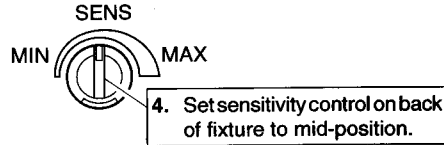
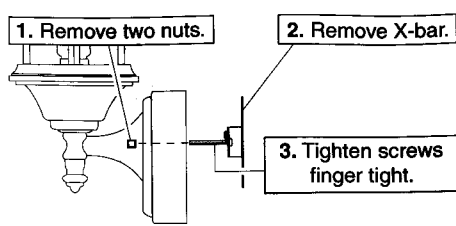
Estimated Installation Time: 30 minutes

Items needed for installation (not included):

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

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

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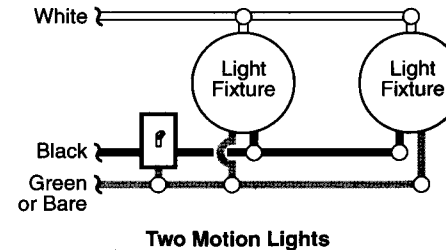
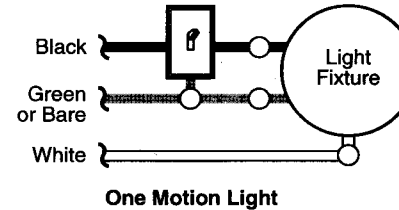


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## WIRING

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