

This manual includes operating instructions for a variety of remote controlled products. All products work on the same principle and use the same code setting information. Please read all instructional information and note any specific information pertaining to your particular product.

**WARNINGS:**

- **FOR USE ONLY** with 120 volt incandescent or halogen bulbs.
- **DO NOT USE** with fluorescent bulbs, appliances, power supplies, low voltage lighting, or any other electrical devices.

This manual applies to the following products:

- |  |  |  |
|--|--|--|
| <ul style="list-style-type: none"> <li>• Transmitters                     <ul style="list-style-type: none"> <li>– Remote Control</li> <li>– Add-A-Switch</li> <li>– Entry Switch</li> <li>– Wireless Motion Sensor</li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>• Receivers                     <ul style="list-style-type: none"> <li>– Indoor Plug-In Converter</li> <li>– Floodlight</li> <li>– Lamp Socket Converter</li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>• Products are UL/cUL and/or FCC/IC tested and approved.</li> <li>• Operational range of up to 100 feet.</li> </ul> |
|--|--|--|

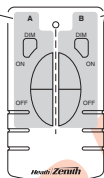
### FEATURES

Heath®/Zenith wireless lighting controls are designed to work together. Simply determine which transmitter(s) you would like to have control which receiver(s) and set the code setting to match.

### CODE SETTINGS

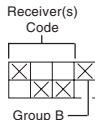
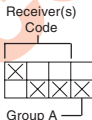
**Note:** Most single system installations will not require any change to the code setting. Transmitter(s) and receiver(s) must have the same code and group setting to work together. Switches 1 through 3 set the code. Switch 4 sets the Group (A or B). See page 2 for switch locations.

Device A Controls:  
Controls One Set of  
Group "A" or Group  
"B" Receiver(s)



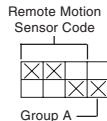
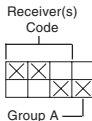
Device B Controls:  
Controls One Set of  
Group "A" or Group  
"B" Receiver(s)

*Note:* When operating more than one system independently of each other, set each system to a different code. There are 8 codes available by changing the settings of switches 1 through 3.



#### Example 2 - Code Switch Settings, System 2

When using a single group transmitter (i.e. Door Transmitter, Add-A-Switch, Remote Motion Sensor) the code and group settings must match receiver(s) for the system to function properly.



*Note:* This setting will work independently of examples 1 and 2 because the code setting is different.

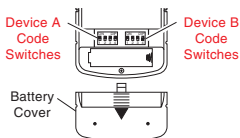
#### Example 3 - Code Switch Settings with Single Transmitter

*Note:* The channel can also be changed to reduce interference problems from other wireless products (i.e. wireless phones, garage door openers, etc.). See *Troubleshooting Guide* for more information.

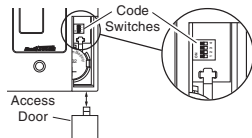
– Indicates Position of Switch

#### Example 1 - Code Switch Settings, System 1 (Factory Setting)

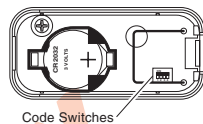
## CODE SWITCH LOCATIONS



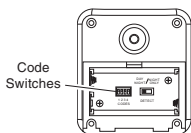
**Remote Control**



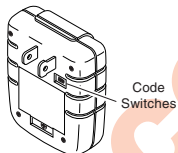
**Add-A-Switch**



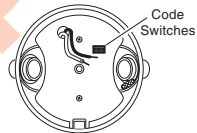
**Entry Switch**



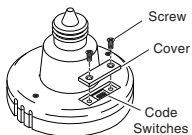
**Wireless Motion Sensor**



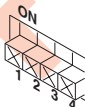
**Indoor Plug-In Converter**



**Floodlight**



**Lamp Socket Converter**



*Note: The "X" has been placed on the switches to help clarify the code settings on the previous page.*

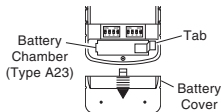
**Close-Up of Typical Code Switch  
(Factory Default Setting is Off)**

## REMOTE CONTROL



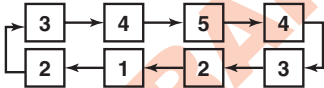
**Note:** One remote control is able to independently operate two receiver units set on the same channel. If more than two receiver units, operating independently, are desired, additional remote controls will need to be purchased.

1. Remove Tab from Battery Chamber. Remove cover from back of transmitter. Gently pull tab out of battery chamber. Slide cover onto transmitter.



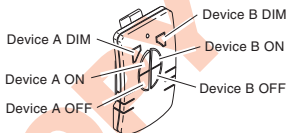
**Rear View of Remote Control**

2. Remote Control Functions. The three buttons on the left side of the remote will operate one or more receiver units with matching addresses. The three buttons on the right side of the remote will operate a second set of one or more receiver units.
- Device A/B ON: Turns on any receiver unit set to the same channel as this remote control.
  - Device A/B OFF: Turns off any receiver unit set to the same channel as this remote control.
  - Device A/B DIM: Activates the DIM feature for any receiver unit set to the same channel as this remote control. **Note:** Pressing the DIM button steps through five brightness levels.



**Note:** To independently operate a second receiver unit using a single remote control, make sure the second set of code switches (Device B) and the code switches on each receiver match (see Code Settings section).

- **Device A** - Set Device A code switches.
- **Device B** - Set Device B code switches.



**Function Controls**

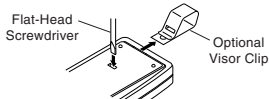
**Important:** Wait 1 to 2 seconds after you press a transmitter button before you press it again to allow the transmission to be completed.

**Note:** If light does not turn on or intermittently turns on and off when transmitter buttons are pushed, see *Troubleshooting Guide*.

### Optional Car Visor Clip (Included)

The remote control includes an optional car visor clip for added convenience that may be installed.

1. To attach car visor clip to remote control (if desired) push it into slot on rear of remote unit until it snaps into place.
2. To remove car visor clip, insert a small, flat-head screwdriver into slot on back of remote. Gently push down on portion of visor clip inside slot with screwdriver while pulling clip out of remote from top.



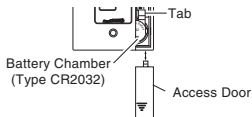
**Removing Visor Clip - Rear View**

## ADD-A-SWITCH

### Installation



1. Remove Tab from Battery Chamber. Remove cover from front of Add-A-Switch transmitter. Gently pull tab out of battery chamber. Slide cover onto Add-A-Switch transmitter.

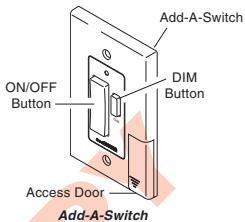


### Removing Battery Tab

2. Select mounting location for add-a-switch transmitter. *Note:* Transmitter should be located within 100 feet (30 m) of receiver. *Note:* Transmitter should be mounted approximately 4 feet from the floor and in the vertical position.
3. Before mounting, hold transmitter in selected location and verify operation (see *Operation*). *Note:* If transmitter does not operate correctly, see *Troubleshooting Guide*.
4. With transmitter held in place, mark the mounting holes with a pencil or pointed object.
5. Remove transmitter and drill two 3/16" holes. Tap drywall anchors (provided) into holes with a hammer.
6. Attach transmitter to wall using two screws (provided).

### Operation

1. Verify that receiver has been properly installed. See *Receiver Information*, page 7.
2. Push the ON (top) button and release. The light should turn on full bright.
3. Push the OFF (bottom) button and release. The light should turn off.
4. Push the DIM button and release. The light should turn on at a DIM level.



**Add-A-Switch**

5. Continue to press the DIM button until the desired dim level is reached. *Note:* Receiver remembers last DIM setting used. To recall last DIM setting, push and release the DIM button.

*Note:* The DIM setting defaults to 50% in the event of a power failure.

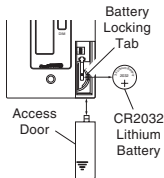
**Important:** Wait 1 to 2 seconds after you press a transmitter button before you press it again to allow the transmission to be completed.

*Note:* If light does not turn on or intermittently turns on and off when transmitter buttons are pushed, see *Troubleshooting Guide*.

### Battery Replacement

The wall switch transmitter requires a type CR2032, 3-volt lithium battery to operate. The transmitter is shipped with the battery installed. With typical use, the battery will last approximately 5 years. Remove battery when transmitter will not be used for an extended period of time.

1. Place thumb on access door and slide down to open.
2. Carefully bend locking tab outward. Battery will pop up.
3. Remove battery from socket.
4. Install replacement battery in socket plus (+) side up (see illustration). Press down on battery until locking tab snaps into place.
5. Reinstall access door by sliding it upward until it locks in place.



**Removing Access Door and Battery**

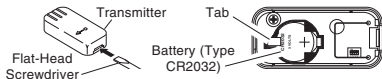
## ENTRY SWITCH

### Installation



**Note:** Entry system includes a transmitter and magnet. The system can be used to signal that a door or window has been opened or to automatically turn the light on when entering a closet, attic, room, etc.

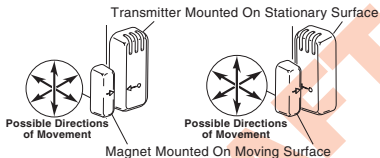
1. Remove Tab from Battery Chamber. Remove transmitter back cover from transmitter using small, flat-blade screwdriver. Gently pull tab out of battery chamber.



### Removing Battery Tab

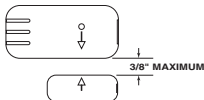
#### Important Considerations:

- Entry transmitter components are for indoor use only.
- The transmitter should be mounted on the frame of door or window (stationary surface). The magnet should be mounted on door or window (moving surface). See illustration below for mounting configurations and possible directions of movement.



#### Mounting Configurations and Possible Directions of Movement

- A compatible receiver must be used to complete the system. The receiver should be located within 100 feet (30 m) of transmitter (maximum distance may vary depending on type of structures between transmitter and receiver).
2. Select mounting location for entry transmitter. **Note:** Maximum gap between transmitter and magnet is 3/8" and the arrows located on the face of each component must be in alignment (see illustration). Also, the front surfaces of the transmitter and magnet must be flush. If magnet is recessed, use magnet extension and two long screws (provided) to ensure proper alignment.



3. Before mounting, hold transmitter and magnet in selected location and verify operation. While holding the transmitter stationary, move the magnet away from transmitter to simulate door or window being opened. Verify red LED on transmitter flashes momentarily and receiver turns light on. Return magnet to original position simulating door or window being closed. Verify red LED on transmitter flashes momentarily and receiver turns light off. **Note:** If transmitter does not operate correctly, see *Troubleshooting Guide*.

4. Mount Transmitter.

**Screw Mounting:** Attach transmitter back cover to wall using two short screws (provided). Snap transmitter onto back cover.

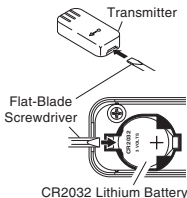
**Tape Mounting:** Apply large piece of foam tape (provided) to the transmitter back cover. Stick transmitter back cover to frame of door or window in desired position. Snap transmitter onto back cover.

5. Repeat step 4 to attach magnet to door or window.

### Battery Replacement

The entry transmitter requires a type CR2032, 3-volt lithium battery to operate. The transmitter is shipped with the battery installed. With typical use, the battery will last approximately five years. Remove battery when transmitter will not be used for an extended period of time.

1. Remove transmitter from transmitter back cover using small, flat-blade screwdriver.
2. Carefully pry battery loose with small, flat-blade screwdriver. Battery will pop up.
3. Install replacement battery in socket plus (+) side up (see illustration).
4. Snap transmitter onto back cover.



### Battery Replacement

**Note:** The magnet does not require a battery.

## WIRELESS MOTION SENSOR



### Features:

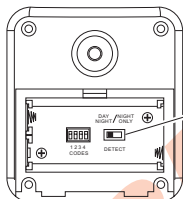
- No wiring required.
  - Up to 70 feet sensing range, 180° Coverage.
  - Adjustable sensitivity.
  - Day/Night or Night only operation.
  - Test mode.
- Uses 2 AA batteries.
  - Wall or eave mount.
  - Controls receivers up to 100 feet away.

### Select Night or 24 Hour Mode

This sensor is able to detect motion day and night or night only. To set the detection mode, remove rear panel by sliding the panel down. Remove batteries if necessary. Slide the DETECT switch to either the DAY/NIGHT or NIGHT ONLY position. Replace rear panel by reversing the above instructions.

### Installing Batteries

Before mounting sensor, remove rear panel by sliding the panel down. Install 2 AA batteries according to polarity markings inside the battery compartment. Replace rear panel by reversing the above instructions.



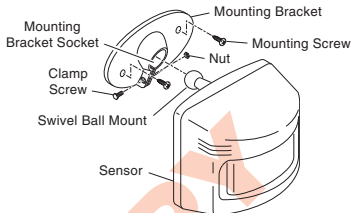
Detect Control

Battery Compartment - Rear View

### Installing Motion Sensor

1. Install sensor mounting bracket where motion detection is desired. Attach sensor mounting bracket to a sturdy object (i.e. tree, post, house, etc.) using two screws provided. Make sure unit has an unobstructed view. *Note:* If mounting bracket to a curved surface, attach mounting bracket vertically.
2. Install motion sensor to mounting bracket. Using a Philips-head screwdriver, loosen the clamp screw on the mounting bracket. Insert swivel ball mount on sensor into mounting bracket socket (*Note:* You should hear a snap). Aim sensor toward area where detection is desired. Tighten clamp screw.

**IMPORTANT:** The sensor must be mounted with the bottom cover facing down in order to maintain water tightness.



Installing Motion Sensor

### Check Operation and Adjustment

*Note:* When first turned on or when switching modes wait 1 1/2 minutes.

The RANGE control and ON-TIME control are located on the bottom of the sensor. Using your fingernails or a small, flat-head screwdriver, gently pry the cover until it opens.

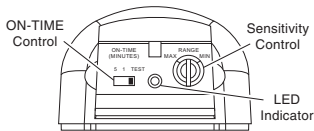
1. Check Operation. Set the ON-TIME control to TEST mode. Walk in front of sensor unit. The LED indicator light located on the bottom of the sensor should flash when motion is detected.
2. Adjust Sensor. Turn the RANGE control to the mid position and ON-TIME control to the TEST position. Walk through coverage area noting where you are when the LED begins to flash. Loosen the clamp screw and move the sensor to change the coverage area. Tighten clamp screw when finished. Do not overtighten clamp screw.
3. Adjust Range Control. To increase sensitivity, turn the RANGE control toward MAX. To decrease sensitivity, turn the RANGE control toward MIN. *Note:* If the RANGE is set too high, false triggering may result in some environments.

*Note:* When using test mode to check operation in the day time:  
A. Set the DETECT control switch to DAY/NIGHT and  
B. Set the ON-TIME control to TEST.

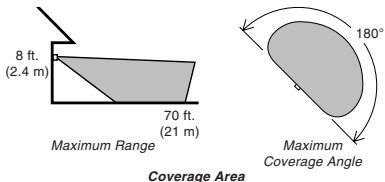
4. Set ON-TIME Control. Determine the amount of time you want the connected device to stay on after motion is detected (1 or 5 minutes). Slide the ON-TIME control to the corresponding setting.

**IMPORTANT:** Avoid Aiming Control At:

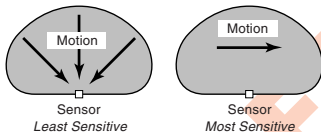
- Objects that change temperature rapidly, such as heating vents and air conditioners. These heat sources could cause false triggering.
- Areas where pets or traffic may trigger the control.
- Nearby large, light colored objects reflecting light may trigger the shut-off feature. Do not point other lights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



**Motion Sensor Controls - Bottom View**



**Coverage Area**



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

**Motion Sensor Sensitivity**



**Adjusting Motion Sensor Coverage**

## RECEIVER INFORMATION

All receivers have the following features and ratings:

- Rated for 120VAC/60Hz supply voltage.
- Light can be dimmed when used with remote control (OFF, 5 Selectable Dim Levels from Dimmest to Brightest, Full On).
- Remembers last selected dim setting.
- Not for use with Compact Fluorescent bulbs.
- When first turned on wait 15 seconds.

## INDOOR PLUG-IN CONVERTER

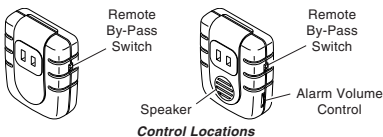
Features and Ratings:

- Up to 300 Watt maximum incandescent load.
- No wiring required.

1. Plug in indoor receiver.
2. Plug in light you wish to control.

**Caution:** Do not exceed the maximum load limits listed above.

3. Check operation. Activate transmitter being used with receiver (see transmitter instructions). A signal will be sent to the receiver to turn the receiver ON or OFF.
4. Using Remote By-Pass Switch. These receivers are equipped with a remote by-pass switch. This switch allows the user to select between AUTO and MANUAL modes. AUTO mode allows the light to be operated by remote control or remote motion sensor. MANUAL mode allows the plugged in light to be operated manually.
5. Adjust audio alert volume (if applicable). Some models are equipped with an audible alarm. The alarm sounds only when the receiver is activated by the wireless motion sensor and entry switch. The alarm volume is adjusted by the thumbwheel on the side of the receiver unit.



## FLOODLIGHT



### Features and Ratings:

- Up to 150 Watt maximum incandescent load or 240 Watt maximum halogen load (up to

75 Watt maximum incandescent, or 120 Watt maximum halogen, per lampholder).

- Minimal wiring required.

### • Install fixture in accordance with local codes.

#### Turn power off at the fuse or circuit breaker.

1. Remove the existing light fixture.
2. Install the mounting strap as shown using two screws that fit your junction box.

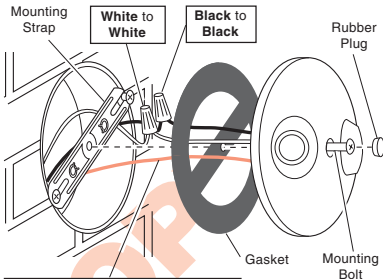
*Note:* The plastic hanger can be used to hold the fixture while wiring. Thread the small end of the plastic hanger through the hole in the center of the cover plate. Insert the small end into one of the slots on the mounting strap.

3. Route the wires from the light receiver through the large gasket holes.
4. Twist the junction box wires and fixture wires together as shown. Secure with UL approved wire connectors.
5. Align the cover plate and cover plate gasket. Secure with mounting bolt.
6. Push the rubber plug firmly into place.
7. Not intended for waterproof junction boxes. Fixture should be surface mount only. Caulk the wall plate mounting surface with silicone weather sealant.
8. Adjust the lamp holders by loosening the lock nuts. *Note:* Do not rotate the lamp holders more than 180° from the factory setting. **Caution:** To avoid water damage and electrical shock, keep lamp holders 30° below horizontal.
9. Screw incandescent bulb up to rated wattage into module. When screwing in the lamps, do not overtighten.

**Caution:** Do not exceed the maximum load limits listed above.

10. Check operation. Activate transmitter being used with receiver (see transmitter instructions). A signal will be sent to the receiver to turn the receiver ON or OFF.

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



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

### Wiring Floodlight

## LAMP SOCKET CONVERTER



### Features and Ratings:

- Up to 150 Watt maximum incandescent load.
  - No wiring required.
1. Screw module into light socket.

2. Screw incandescent bulb up to rated wattage into module. **Caution:** Do not exceed the maximum load limits listed above.
3. Check operation. Activate transmitter being used with receiver (see transmitter instructions). A signal will be sent to the receiver to turn the receiver ON or OFF.



## TROUBLESHOOTING GUIDE

SYMPTOM	POSSIBLE CAUSE	SOLUTION
Device does not come on.	<ol style="list-style-type: none"><li>1. Circuit breaker or fuse is turned off.</li><li>2. Switch on device is turned off.</li><li>3. Interrupted by another device.</li><li>4. Does not respond immediately after installation.</li><li>5. Signals from transmitter are being blocked, or transmitter is out of range.</li><li>6. Weak battery in the transmitter.</li><li>7. Dip switches on transmitter and receiver units do not match.</li><li>8. Device is defective.</li></ol>	<ol style="list-style-type: none"><li>1. Verify circuit breaker or fuse is turned on.</li><li>2. Verify switched device is turned on.</li><li>3. Change channels on transmitter and receiver units.</li><li>4. Wait for 90 second initialization period (remote motion sensor).</li><li>5. Check for metal objects that could block the signal, or reposition the transmitter.</li><li>6. Check battery charge and replace if necessary.</li><li>7. Verify dip switch settings on transmitter and receiver units are set the same.</li><li>8. Test using different device.</li></ol>
Device does not turn off.	<ol style="list-style-type: none"><li>1. Same as 5, 6, and 7 above.</li></ol>	<ol style="list-style-type: none"><li>1. Same as 5, 6, and 7 above.</li></ol>
Device comes on randomly.	<ol style="list-style-type: none"><li>1. Short term power line failure.</li><li>2. Another transmitter on the same channel.</li></ol>	<ol style="list-style-type: none"><li>1. Next transmission from transmitter will reset receiver to correct state.</li><li>2. Change channels on transmitter and receiver units.</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 THESE PRODUCTS

#### REGULATORY INFORMATION

This device complies with Part 15 of the FCC Rules and RSS-210 of Industry Canada. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The term "IC:" before the radio certification number only signifies that Industry Canada technical specifications were met. The user is cautioned that changes or modifications not expressly approved by the party responsible for regulatory compliance could void the user's authority to operate the equipment.

## 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. To obtain a refund or a replacement, call 1-800-858-8501 for instructions.

**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.

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