Heath®/Zenith

Remote Controlled Products

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

This manual applies to the following products:
- 6-Button Remote Control
- Indoor Plug-In Receiver
- PAR Light Receiver
- Indoor/Outdoor Screw-In Light Receiver
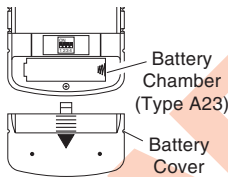- Remote Motion Sensor

FEATURES
- Products are UL/cUL and/or FCC/IC tested and approved.
- Operational range of up to 100 feet.

6-BUTTON 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. Install alkaline 12-Volt remote battery (A23 type). Remove cover from back of transmitter. Using outline of battery chamber as a guide, align battery with chamber and insert battery. Slide cover onto transmitter.
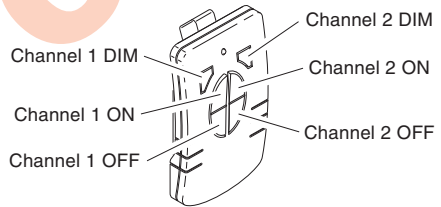

Battery Chamber (Type A23)

Battery Cover

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.
- Channel 1/2 ON: Turns on any receiver unit set to the same channel as this remote control.
- Channel 1/2 OFF: Turns off any receiver unit set to the same channel as this remote control.
- Channel 1/2 DIM: Activates the DIM feature for any receiver unit set to the same channel as this remote control.

Note: To independently operate a second receiver unit using a single remote control, make sure the 4th dip switch on each receiver is set to different settings.
- Channel 1 - Slide dip switch 4 to the ON position on each receiver to be operated by these buttons.
- Channel 2 - Slide dip switch 4 to the OFF position on each receiver to be operated by these buttons.
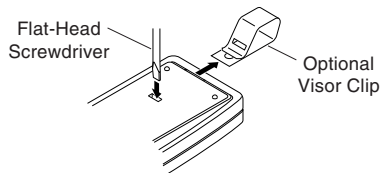

Channel 1 DIM
Channel 1 ON
Channel 1 OFF
Channel 2 DIM
Channel 2 ON
Channel 2 OFF

Function Controls

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.
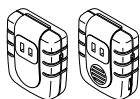

Flat-Head Screwdriver

Optional Visor Clip

Removing Visor Clip - Rear View

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, Low, Med, Hi, Full On).
- Remembers last selected dim setting.
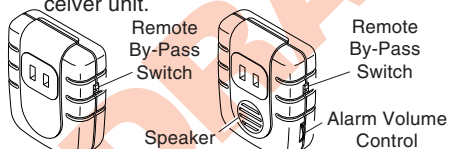- Not for use with Compact Fluorescent bulbs.

INDOOR PLUG-IN RECEIVER

Features and Ratings:
- Up to 2.5 Amps resistive load.
- Up to 300-Watt 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. Either activate remote motion sensor or toggle ON/OFF switches on remote control to check operation.
4. Using Remote By-Pass Switch. These receivers are equipped with a remote by-pass switch. This switch allows the user to select between ON and RECEIVER modes. ON mode allows the plugged in light to be operated manually. RECEIVER mode allows the light to be operated by remote control or remote motion sensor.
5. Adjust audio alert volume (if applicable). Some models are equipped with an audible alarm which sounds each time the receiver is activated. The alarm volume is adjusted by the thumbwheel on the side of the receiver unit.

Remote By-Pass Switch

Remote By-Pass Switch

Speaker

Alarm Volume Control

Control Locations
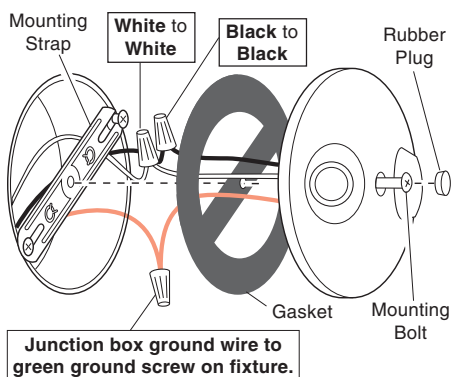
PAR LIGHT RECEIVER

Features and Ratings:
- Up to 300 Watt incandescent load (up to 150 Watt per lampholder).
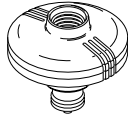- Minimal wiring required.

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. If a wet location junction box was not used, 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. Either activate remote motion sensor or toggle ON/OFF switches on remote control to check operation.

Mounting Strap

White to **White**

Black to **Black**

Rubber Plug

Junction box ground wire to green ground screw on fixture.

Gasket

Mounting Bolt

Wiring PAR Light Receiver

INDOOR/OUTDOOR SCREW-IN LIGHT RECEIVER

Features and Ratings:
- Up to 150 Watt 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. Either activate remote motion sensor or toggle ON/OFF switches on remote control to check operation.

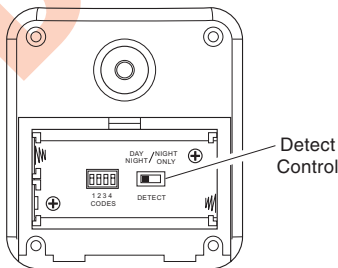## REMOTE MOTION SENSOR

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.

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.
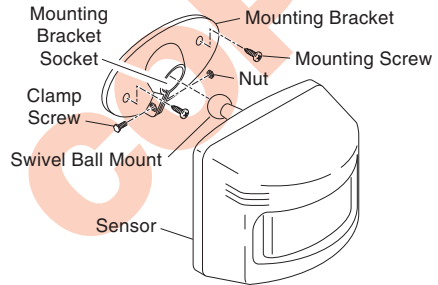

Battery Compartment - Rear View

Installing Remote 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.
2. Install remote 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.

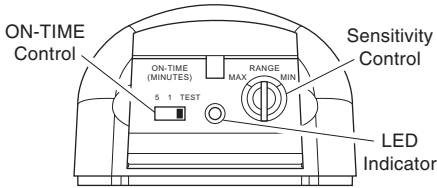*Installing Remote Sensor*

Check Operation and Adjustment

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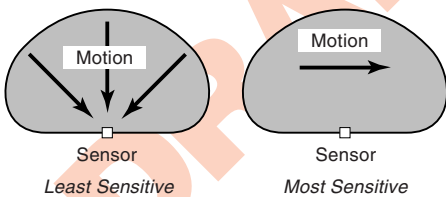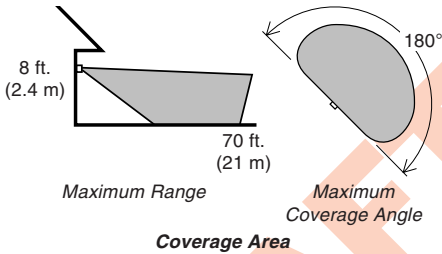
4. Set ON-TIME Control. Determine the amount of time you want the connected device to stay on after motion is detected (1 or 5 minutes). Slide the ON-TIME control to the corresponding setting.

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.
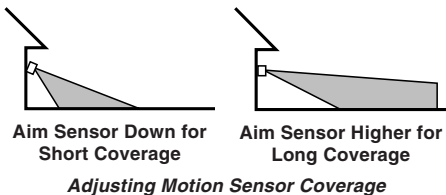
ON-TIME Control
Sensitivity Control
LED Indicator

Remote Sensor Controls - Bottom View

8 ft. (2.4 m)
70 ft. (21 m)
180°

Maximum Range
Maximum Coverage Angle

Coverage Area

Motion
Motion
Sensor
Sensor
Least Sensitive
Most Sensitive

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

Motion Sensor Sensitivity

Aim Sensor Down for Short Coverage
Aim Sensor Higher for Long Coverage

Adjusting Motion Sensor Coverage

CHANNEL SETTINGS

Note: **Most installations will not require you to change any of the dip switches on your wireless product or remote control.**

Note: **If purchasing more than one remote control system, select different operating channels unless interaction is desired between the systems.**

These remote control products communicate by using channels that can be changed by sliding dip switches into the ON or OFF [on some switches the numbers 1 (ON) and/or 0 (OFF) are used] position on both the transmitter and receiver unit(s). The channel is factory set; however, there are 3 switches (8 selectable channels) that allow you to expand your system and prevent outside interference. Other remote controlled unit(s) may cause interference and the system may not function properly. Follow the instructions below for setting a new channel.
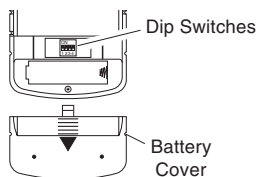
1. Open the cases and locate dip switches on both the transmitter and receiver unit(s).
2. Dip switches 1 through 3 are used for setting the channel (Remote Control Only - position 4 is not used and should remain in OFF position).
3. To change the channel, slide dip switches to ON or OFF as needed. It is recommended to only change one dip switch at a time and then check to see if system is functioning properly.

IMPORTANT: Dip switches in positions 1 through 3 must be in the exact same configuration on both the transmitter and receiver unit(s) for this system to function properly.
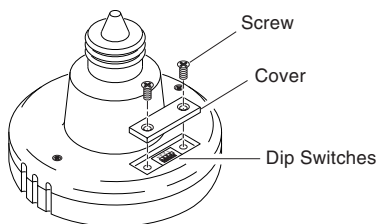
ON
1 2 3 4

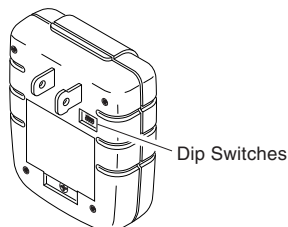Dip Switches - Shown in the OFF Position (Factory Default)
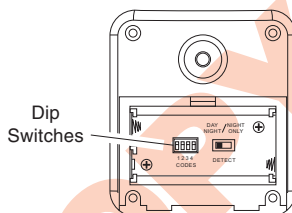
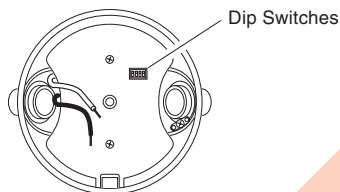**Dip Switches**

DIP SWITCH LOCATIONS

6-Button Remote Control

Dip Switches

Battery Cover

Indoor/Outdoor Screw-In Light Receiver

Screw

Cover

Dip Switches

Indoor Plug-In Receiver

Dip Switches

Remote Motion Sensor

Dip Switches

DAY / NIGHT
NIGHT / ONLY

DETECT

1 2 3 4
CODES

PAR Light Receiver

Dip Switches

TROUBLESHOOTING GUIDE

SYMPTOM	POSSIBLE CAUSE
Device does not come on.	1. Circuit breaker or fuse is turned off. 2. Switch on device is turned off. 3. Device is defective. Try remote using different device. 4. Signals from transmitter are being blocked, or transmitter is out of range. Check for metal objects that could block the signal, or reposition the transmitter. 5. Weak battery in the transmitter. 6. Dip switches on remote control and wireless unit(s) do not match.
Device does not turn off.	1. Same as 4, 5, and 6 above.
Device comes on randomly.	1. Short term power line failure. 2. Another transmitter on the same channel.

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.** If the problem persists, call* for assistance at **1-800-858-8501,** 7:30 AM to 4:30 PM Central Time weekdays. You may also write* to:

DESA International, Inc.

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

* 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 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.

YOUR HEATH®/ZENITH 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. **Light bulbs and Batteries not covered.** To obtain a refund or a replacement, return the product to the place of purchase.

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

This warranty covers only Heath®/Zenith assembled products and is not extended to other equipment and components that a customer uses in conjunction with our products.

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