

Gotcha!™

Owner's Manual GT500R Series

Important!

**TEST PERIOD LASTS FOR 5 MINUTES
AFTER POWER IS TURNED ON.**

- The Gotcha has a 5 minute test period to allow a walk test during daylight. During this five minute period the unit will turn lights on for only 4-5 seconds after motion ceases.
- After the 5 minute test period, the Gotcha will reset itself to *night only* operation.
- For an additional 5 minute test period, turn power off for 5 seconds, then back on.
- During darkness, lights will remain on after motion ceases, for the delay period set on the time control dial.

R

A

B

How Does Gotcha Work?

Gotcha's infrared sensor "sees" small temperature changes caused by the motion of people or cars within its protection zone and turns on lights automatically. It welcomes visitors and may deter intruders.

How long do the lights stay on?

Lights turn off a short time after motion in the detection range stops. You can adjust this time from 10 seconds up to 5 minutes. Since the lights are only on when needed, and the sensor uses only four watts, Gotcha is extremely energy efficient.

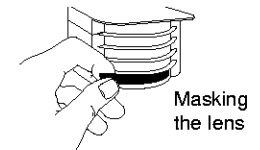
Can outdoor lights still be turned on with the light switch?

Yes. Gotcha can be controlled by a conventional indoor switch or circuit breaker. Lights can be turned on or off manually at any time.

- **Lights off:** Flip the switch "off".
- **Automatic operation:** Turn the switch "on". Gotcha will first run through a 5 minute test period for daytime testing. The sensor will then be ready to detect movement within its zone at night only.
- **Manual Override Mode** (to keep lights on): Flip the switch "off" then on again two times (off-on-off-on) within 2-3 seconds.
- **To Resume Automatic Operation:** Flip the switch once (off-on) within 2 seconds. Sensor will also reset to Automatic Mode after 6 hours or at dawn.

Will Gotcha detect animals?

Gotcha will not detect cars, birds or small dogs. It may detect large dogs and larger animals. Having animals trigger Gotcha can help give property a "lived-in" look. You limit animal detection by turning down the sensitivity knob or by placing electrical tape on the lower part of the lens, or both.



How are Time and Sensitivity set?

Time and Sensitivity adjustments are located on the underside of the sensor and are protected by weather-proof caps. To adjust, remove the cap and use a small screwdriver. Replace the cap after adjustment is completed.

- **Time:** sets the time that lights will remain on after protection zone is vacated.
- **Sensitivity:** increases or decreases the responsiveness of the sensor and its range.

Specifications:

Switching Capacity: 500 watts
Voltage: 120 volts
Protection Pattern: 60° x 110°
Time Adjustment: 10 seconds to 5 minutes

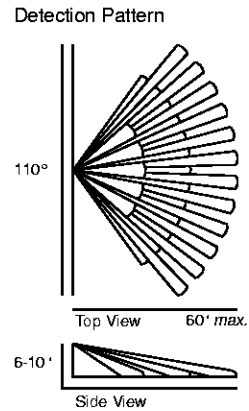
Power Consumption: 4 watts
UL Listing: Raintight Photoelectric Switch



Selecting A Location

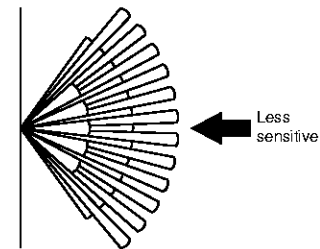
How large an area will Gotcha protect?

When mounted at the recommended height of 6 - 10 feet, the detection pattern extends out 40 - 60 feet and is 110° wide. To reduce coverage, aim the sensor towards the ground.

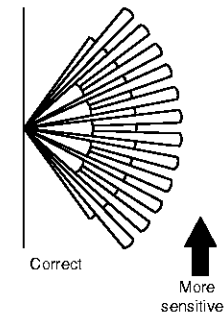


Do Not Locate Gotcha:

- Where movement is directly toward sensor.
Less sensitive to movement directly towards sensor

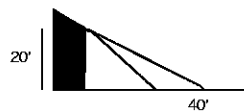


More sensitive to movement across the pattern

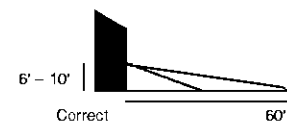


Do Not Locate Gotcha:

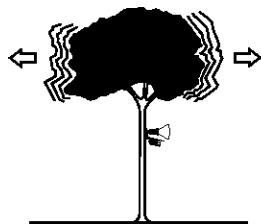
- Too High
High Mounting reduces range



Mounting 6' to 10' high allows maximum range



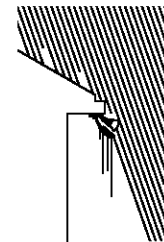
- On pole or tree that sways in wind
Movement triggers sensor



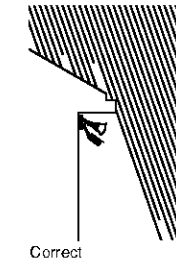
Mount on stable surface



- Exposed to rain or icicles
Sensor unprotected and view blocked



Mount sensor in protective area



- Over heating vents, dryer vents, air conditioners or any object that may move or change temperature rapidly

Assembly and Wiring

Caution:

■ **TURN OFF ALL POWER BY REMOVING POWER FUSE OR TURNING OFF CIRCUIT BREAKER.**

■ Read entire Owner's Manual before proceeding.

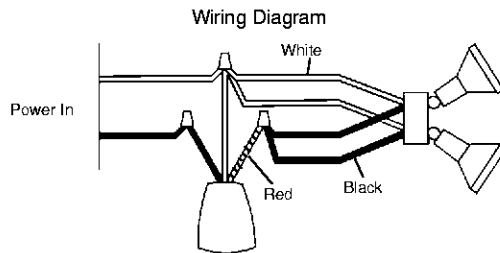
■ All wiring should comply with local electrical codes and may require a qualified electrician.

■ The total lighting load connected to the Gotcha must not exceed 500 watts incandescent/halogen or 250 watts fluorescent. To switch more wattage, an electrician can install a relay to handle the load. Do not use to control motors or high intensity discharge lights. Do not use with dimmers.

■ If you are replacing an existing outdoor light, turn off the power, disconnect and remove the old fixture. If there is no power, a licensed electrician can install the wiring required.

■ (GT500R only) Comes complete with both round and rectangular mounting plates.

1. Screw the threaded arms of each floodlight into the outer holes of the mounting plate. Leave the locknuts and screws loose until ready to aim.
2. Screw the threaded arm of the sensor into the center hole of the mounting plate.
3. Bring power leads and light fixture sensor leads into box.
4. Position gasket on wires.
5. Attach ground wire(s) to box grounding screw.
6. Twist on wire nuts. Secure with electrical tape.
7. Align gasket to insure all around seal. Fasten cover and fixtures to box.
8. Screw in light bulbs. Turn on power.



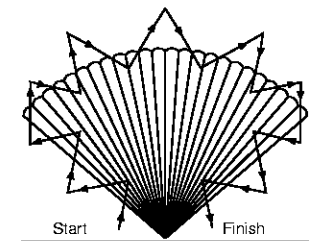
Aiming And Adjustment

The purpose of the Walk Test is to check and adjust the coverage pattern of Gotcha. When power is first applied to the Gotcha, it will automatically provide a 5 minute Walk Test Period. During this period the sensor will operate in daylight and will keep lights on for only 5 seconds after motion ceases.

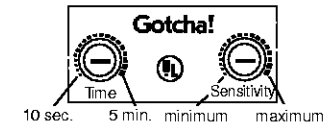
Walk Test

1. Aim the sensor across the traffic pattern you want to protect.
2. Turn on power.
3. Start outside the pattern and walk across the pattern until the lights go on.
4. Adjust the sensor aiming as necessary to improve coverage.
5. Remove weatherproofing cap from sensitivity control. Turn dial gently with a small screwdriver. Less sensitivity may be desired if you wish to protect a limited area (or if the sensor is being activated by wind, foliage or animals.) More sensitivity will help cover a larger area.
6. Repeat steps #3 thru #5 until you are satisfied with the coverage. To conduct another 5 minute walk test, turn off the power for at least 5 seconds and turn it on again.
7. Tighten screws to lock the sensor in position.
8. Set the "Time" control. The minimum setting is 10 seconds, the maximum 5 minutes. This period starts after the movement in the protection pattern ceases.
9. Replace the caps on Time and Sensitivity controls.

Walk Test



Time & Sensitivity Adjustments



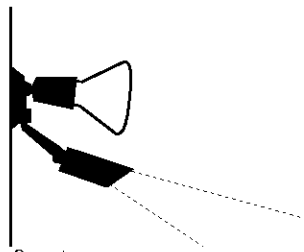
Helpful Aiming Hints

Do Not Aim Gotcha:

- Above or touching its own lights.
Heat from lights triggers sensor

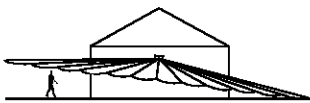


Move sensor below lights

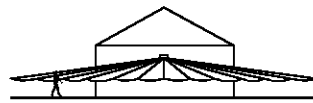


Correct

- Tilted from side to side.
Part of protection pattern unusable



Position sensor exactly level from side to side



Correct

- Where reflections come from shiny or light colored objects such as cars, windows or white walls.
Sensor is triggered by reflections

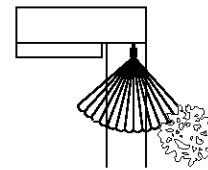
Aim sensor away from reflective objects



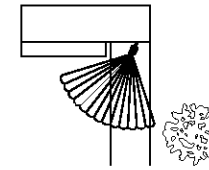
Correct

Do Not Aim Gotcha:

- Pointing at branches, swimming pools, plants or water.
Motion triggers sensor



Aim sensor away from obstructions

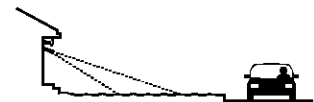


Correct

- Where sensor may detect passing cars.
Passing cars activate sensor



Aim sensor down to avoid activation from passing cars



Correct

- Aimed Above Horizontal
Aiming at sun will cause erratic sensor performance

Aim sensor down towards ground

Troubleshooting

Each Gotcha undergoes rigorous testing and quality control procedures before it leaves the factory. Malfunctions are most often due to incorrect installation or aiming of the unit.

Lights Do Not Turn On

1. Turn off power for at least 5 seconds, then on again. Remember the daylight test period is only 5 minutes long.
2. Check that bulbs and fixtures work. Compare wiring to the wiring diagram. Check that power is on.
3. Check that sensor is level from side to side and pointed at the area you desire. Sensor should be pointed slightly downward.

Lights Go On and Off Quickly

1. Make sure sensor is located below and in front of the lights. Heat from the lights will cause unsteady sensor performance.
2. Make sure lights are not reflecting back into the sensor. Check for white or reflective surfaces in the protection pattern. Aim sensor and lights in different directions.
3. Note that the sensor is more sensitive in winter since infrared energy is easier for the sensor to detect in cold temperatures.
4. See #3 & #4 of "Lights Do Not Turn Off."

Lights Do Not Turn Off

1. Check that the Time control dial on the bottom of the sensor is set to minimum.
2. Stay completely out of the protection pattern to avoid activating.
3. Make sure unit is not mounted on an unstable object (tree or pole) that sways in the wind. Make sure unit is firmly mounted.
4. Make sure unit is not aimed at something that would cause a temperature change such as tree branches, a body of water, air conditioners or heating vents.
5. Make sure unit is not in "Manual Override" Mode. Turn power off for more than 5 seconds, then back on again to resume automatic operation.
6. Make sure line voltage has not "browned out" to below 100 volts. This might happen if installation is on a day with heavy air conditioner use. If voltage is not adequate, wait for voltage to recover to normal.

Lights Turn On In Storm

Rain, snow and windstorms can create large temperature changes which may turn on the sensor. False triggering can be minimized by installing the sensor in a protected location and turning down the sensitivity control.

Maintenance and Repair

Keep the lens area clean and free of obstructions. Do not attempt to open or repair the unit. There are dangerous voltages inside and no user serviceable parts. For repair service follow your warranty.

Limited Warranty

Your Gotcha will be replaced or repaired, at our option, if it proves to be defective in workmanship or materials within five years from the date of original purchase.

For repair or replacement, return the product freight prepaid and insured to the address below. The unit should be packed carefully. Please include your sales receipt and a description of the problem.

If your unit is out of warranty or the damage is unrelated to the original manufacture, return your unit directly to us with a check for \$20.00 (made out to RAB Electric). We will repair or replace your unit.

Under no circumstances shall RAB be liable for any incidental or consequential damages arising out of or in connection with the use or performance of this product or other indirect damages with respect to loss of property or revenue or cost of installation, removal or re-installation. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.



Easy Installation & Product Help

Fax Back
Faxed Tips & Specs,
24 hours/day,
888 RAB-1236

www.rabweb.com
Visit our internet site for
color product photos
and installation tips.

Tech Help Line
Call our friendly experts.
8AM - 5PM ET Mon. - Fri.
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