Installation procedures are the same for sectional and one-piece doors.

Look at the label on the connector end of each case to identify the sensors.

The sending eye transmits an invisible light beam to the receiving eye.

If an obstruction breaks the light beam while the garage door is closing, the door will stop and reverse to full open position; and the opener lights will flash for 5 seconds to alert you to the obstruction.

The units can be installed on either side of the garage door (Figure 1) as long as the sun never shines directly into the receiving eye lens, but the brackets must be connected and fastened so that the sending and receiving eyes face each other as shown in Figure 1.

The brackets must be securely fastened to a solid surface such as the studs on either side of the door, or add a piece of wood at each location if installing in masonry construction.

The invisible light beam path must be unobstructed. No part of the garage door (or door tracks, springs, hinges, rollers or other hardware) can interrupt the beam while the door is closing. If it does, use a piece of wood to build out each sensor mounting location to the minimum depth required for light beam clearance.

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FIGURE 1  Facing the door from inside the garage
Figures 2, 3 and 4 show recommended assembly of bracket(s) and "C" wrap based on the wall installation of the sensors on each side of the garage door as shown on page 1, or on the garage door tracks themselves.

Figures 5 and 6 are variations which may fit your installation requirements better. **Make sure the wraps and brackets are aligned so the sensors will face each other across the garage door.**

**Garage Wall or Door Track Installation Procedure**

- Fasten the "C" wraps to the mounting brackets with square holes, using the hardware shown in Fig. 2.

**Garage Wall Installation Procedure**

- Connect each assembly to a slotted bracket, using the hardware shown in Fig. 3. **Note alignment of brackets for left and right sides of the door.**
- Finger tighten the lock nuts.
- Use bracket mounting holes as a template to locate and drill (2) 3/16" diameter pilot holes on both sides of the garage door, 4"-6" above the floor (but not exceeding 6"). See Warning on page 1.
- Attach bracket assemblies with 1/4"x1-1/2" lag screws as shown in Fig. 3.
- Adjust right and left side bracket assemblies to the same distance out from mounting surface. Make sure all door hardware obstructions are cleared. Tighten the nuts securely.

**Garage Door Track Installation Procedure**

Discard slotted bracket. Drill 3/8" holes in each track and fasten securely with hardware as shown in Fig. 4.

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**Hardware Shown Actual Size**

<table>
<thead>
<tr>
<th>Hardware Shown Actual Size</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>#10 - 32 x 3/8&quot; Screw</td>
<td>#10 x 32 Lock Nut</td>
</tr>
<tr>
<td>1/4&quot; x 1-1/2&quot; Lag Screw</td>
<td>Staples</td>
</tr>
<tr>
<td>1/4&quot; - 20 x 1/2&quot; Carriage Bolts</td>
<td>1/4&quot; - 20 Lock Nut</td>
</tr>
</tbody>
</table>

---

**Alternate Wall Mount**

**FIGURE 5**

**Alternate Floor Mount**

**FIGURE 6**
• Center each sensor unit in a "C" wrap with lenses pointing toward each other across the door.

• Secure sensors with the hardware shown in Figure 7. Finger tighten the wing nut on the receiving eye to allow for final adjustment. Securely tighten the sending eye wing nut.

• Run wires from both sensors to the opener as shown in Figure 7. Use insulated staples to secure the wire to the wall and ceiling.

• Connect both sets of wires to the opener terminals as shown (depending upon your model).

• Plug in the opener. If your opener has the Multi-Function Door Control, make sure the Lock Feature is off. Red indicator lights in both the sending and receiving eyes will glow if wiring connections and alignment are correct.

If the indicator lights are blinking (and the invisible light beam path is not obstructed), alignment is required.

• Loosen the receiving eye wing nut to allow slight rotation of unit. Adjust sensor vertically and/or horizontally until the red indicator light glows.

• When indicator lights are glowing in both units, tighten the wing nut in the receiving eye unit.
TEST THE PROTECTOR™ SYSTEM

- Press the remote control push button to open the door.
- Place the opener carton in the path of the door.
- Press the remote control push button to close the door.

The garage door opener will not close from a remote control if the indicator light in either sensor is blinking (alerting you to the fact that the sensor is: a. not connected, b. misaligned or c. obstructed).

The garage door can be closed by pressing and holding the Door Control push button until down travel is completed.

TEST THE SAFETY REVERSE SYSTEM

TEST:

- Place a one-inch board (or a 2x4 laid flat) on the floor, centered under the garage door.
- Operate the door in the down direction. The door must reverse on striking the obstruction.

ADJUSTMENT:

If the door stops on the obstruction, it is not traveling far enough in the down direction.
- Increase the DOWN limit by turning the DOWN limit adjustment screw counterclockwise 1/4 turn.
- Repeat the test.

On a sectional door, make sure limit adjustments do not force the door arm beyond a straight up and down position.
- When the door reverses on the one-inch object, remove the obstruction and run the opener through 3 or 4 complete travel cycles to test adjustment.

If the door will not reverse after repeated adjustment attempts, call for professional door service.

Trouble Shooting

1. If the sending eye or receiving eye indicator light does not glow after installation, check for:
   - Electric power to the opener.
   - A short in the black/white wires. These can occur under staples or at screw terminal connections.
   - Incorrect wiring between sensors and opener.
   - An open wire (wire break).

2. If only the receiving eye indicator light is off (and the invisible light beam path is not obstructed), check for an open wire to the receiving eye.

3. If both sensors are blinking, realign or remove obstruction.

Replacement Parts

<table>
<thead>
<tr>
<th>Part Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>41B4115</td>
<td>2-strand black &amp; white wire</td>
</tr>
<tr>
<td>41A4373</td>
<td>Safety Sensor Kit (receiving</td>
</tr>
<tr>
<td></td>
<td>and sending eyes only)</td>
</tr>
<tr>
<td>41A4116</td>
<td>Safety sensor hardware bag</td>
</tr>
</tbody>
</table>

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