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DDcafor 820CB Garage Door Safety Sensor

820CB Garage Door Safety Sensor User Manual

Model: 820CB Garage Door Safety Sensor | Brand: DDcafor



1. INTRODUCTION

This user manual provides comprehensive instructions for the installation, operation, and maintenance of the 820CB Garage Door Safety Sensor Kit. This product is designed to enhance the safety of your garage door opener system by detecting obstructions in the door's path, preventing accidents and damage. Please read this manual thoroughly before beginning installation.

2. PRODUCT OVERVIEW

The 820CB Garage Door Safety Sensor Kit consists of two primary components: a sending sensor (with a yellow LED) and a receiving sensor (with a green LED). These sensors work in conjunction to create an invisible infrared beam across the garage door opening. If this beam is interrupted while the door is closing, the garage door opener will automatically reverse, ensuring safety.



Figure 2.1: Overview of the 820CB Garage Door Safety Sensor Kit, including the two sensors, wires, and connectors.

820CB garage door sensor is compatible with all garage door openers manufactured.

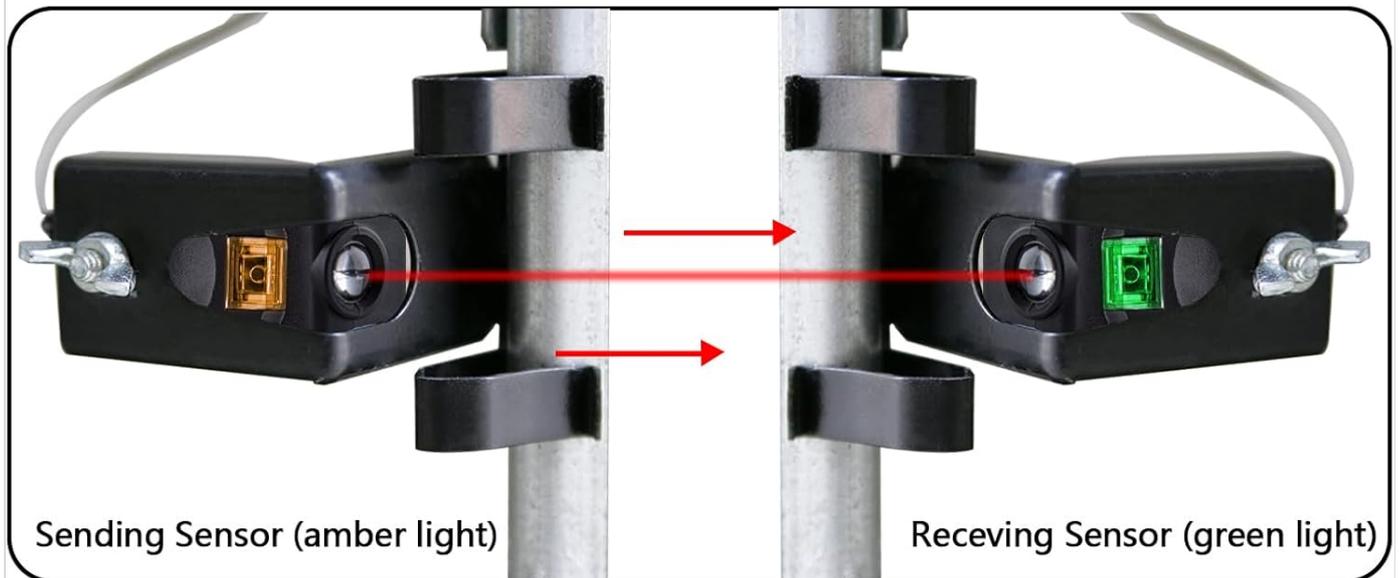


Figure 2.2: The 820CB garage door sensor is compatible with all garage door openers manufactured after 1997 that utilize safety sensors.

3. COMPATIBILITY

The 820CB garage opener Safety Sensor is a direct replacement for ALL 1997-current operators equipped with the Safety Sensor option, identifiable by the AMBER LED light of the Security+ system.

This sensor is compatible with a wide range of garage door opener models, including but not limited to:

- **Chamberlain models:** 1265, 2210, 2220, 2265, 2265-267, 2280, 2500, 2580, PD210, PD212, PD420, PD420-2, PD460, PD610, PD612, PD612K, and others.
- **LiftMaster models:** 8587, 8557, 8550, 8500, 8360, 8355, 3800, 3595, 3585, 3240, 3270, 3255, 1356, 1355, 3265-267.

The 820CB is also compatible with ALL fail-safe units (equipped with infrared eye beam) from LiftMaster, Chamberlain, Craftsman, Sears, and Master Mechanic.

It serves as a replacement for original manufacturer part numbers such as: 2610459, 012381050345, 041A5034, G801CB-P, 801CB, and 41A5266-1.

4. PACKAGE CONTENTS

Upon opening your 820CB Garage Door Safety Sensor Kit, you will find the following components:

- Sending Sensor (with yellow LED) x 1
- Receiving Sensor (with green LED) x 1
- Wiring (pre-attached to sensors)
- Screws for mounting
- Connectors for wiring
- Installation Instructions (detailed user manual)



Figure 4.1: Visual representation of the components included in the 820CB Garage Door Safety Sensor Kit.

5. SETUP AND INSTALLATION

IMPORTANT SAFETY NOTE: Before installing the Safety Reverse Sensor, ensure the garage door opener is NOT

connected to a power source. Disconnect power at the circuit breaker or unplug the unit to prevent electrical shock or accidental door operation.

5.1 Mounting the Sensors

The safety reversing sensors must be mounted on the door track, approximately 6 inches (15 cm) above the floor. Ensure they are securely fastened and aligned to function correctly.

1. Locate the existing sensor mounting points on the garage door tracks.
2. Attach the sensors to the door track using the provided screws. If your kit includes brackets, attach the brackets first, then secure the sensors to them.
3. Position the sending sensor (yellow LED) on one side of the garage door opening and the receiving sensor (green LED) directly opposite it, ensuring they face each other.



Figure 5.1: Proper mounting of the sending and receiving sensors on the garage door track, approximately 6 inches from the floor.

5.2 Wiring the Sensors

Connect the sensor wires to the garage door opener's terminal block. The wires are polarity sensitive, so ensure correct connection:

- Each sensor has two wires. Separate the ends of these wires.
- Connect one wire from each sensor to the common terminal on your garage door opener (typically white or striped).
- Connect the other wire from each sensor to the safety sensor terminal on your garage door opener (typically red or black).
- Use the provided wire connectors to ensure secure and insulated connections.

For convenience, you can combine the wires from both sensors at a central point (e.g., above the garage door) and then run a single set of wires back to the garage door opener.

5.3 Aligning the Sensors

Proper alignment is critical for the sensors to function correctly. The yellow and green LEDs on the sensors indicate their status:

- Reconnect power to the garage door opener.
- The yellow LED on the sending sensor should be lit solid.
- The green LED on the receiving sensor should also be lit solid. If the green LED is flashing or off, the sensors are not aligned or there is an obstruction.
- Adjust the sensors by gently moving them until both LEDs are solid. Ensure no objects, including sunlight, are obstructing the beam.



Figure 5.3: The green LED on the receiving sensor indicates proper alignment when lit solid. The yellow LED on the sending sensor should also be solid.

6. OPERATING PRINCIPLES

The 820CB safety sensors function by projecting an invisible infrared beam across the garage door opening. This beam acts as a safety barrier. When the garage door is in the process of closing, if any object or person breaks this infrared beam, the sensors immediately send a signal to the garage door opener. This signal instructs the opener to stop the downward movement and reverse the door to its fully open position, thereby preventing potential injury or damage.

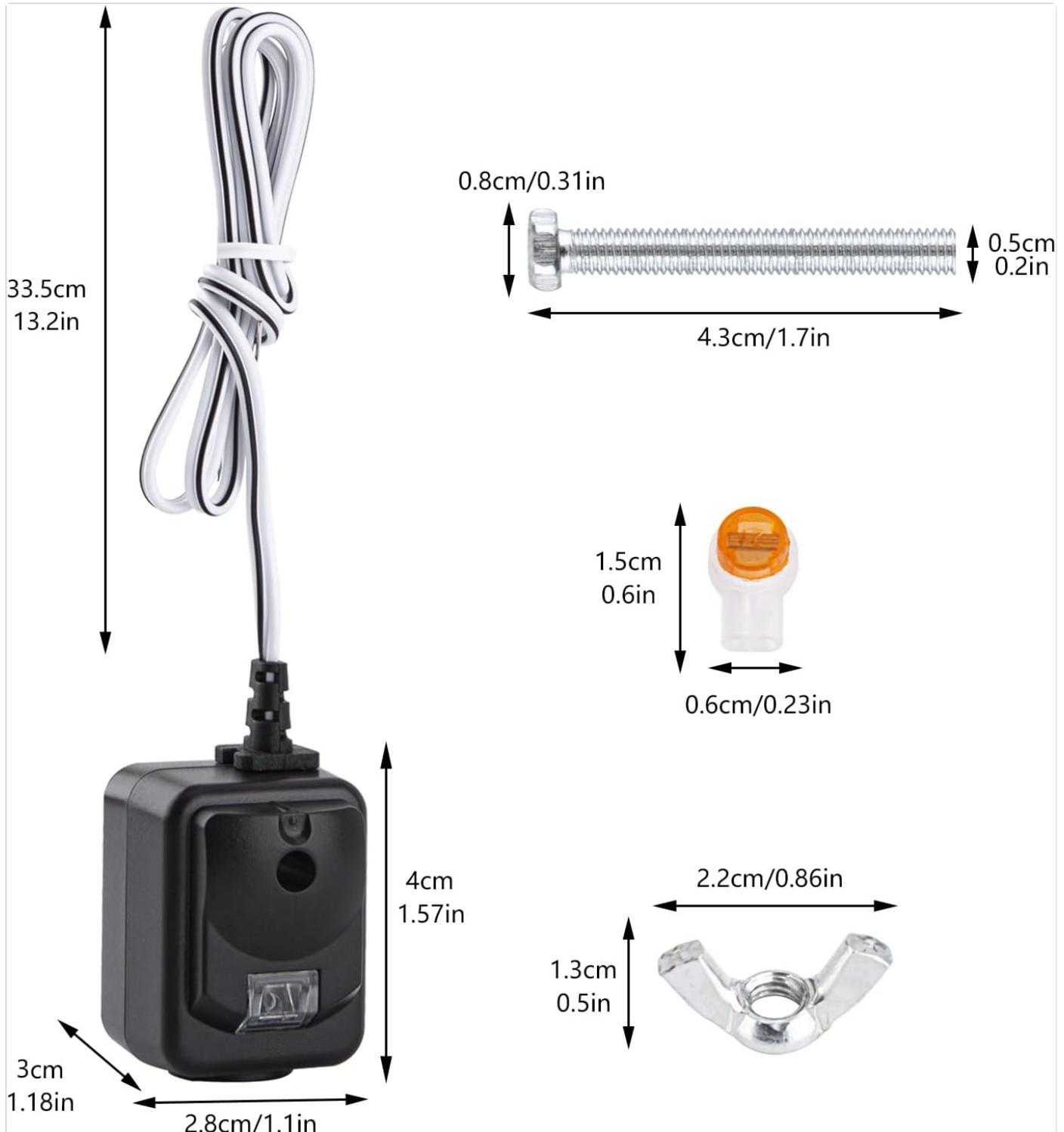


Figure 6.1: The safety sensor emits an invisible beam. If the beam is broken during closing, the garage door will automatically reverse. This type of safety feature is a mandatory requirement for all garage door openers manufactured after 1993, highlighting its importance in modern garage safety standards.

7. MAINTENANCE

Regular maintenance of your 820CB safety sensors is essential to ensure their continued functionality and the safe operation of your garage door opener.

- **Cleaning:** Periodically, use a soft, clean cloth to gently wipe the sensor lenses. This will remove any accumulated dust, dirt, or cobwebs that could obstruct the infrared beam and impair sensor performance.
- **Alignment Check:** It is recommended to regularly check that both the yellow LED on the sending sensor and the green LED on the receiving sensor are lit solid. If either LED is flashing or off, realign the sensors immediately as described in Section 5.3.
- **Obstruction Test:** Perform an obstruction test at least once a month. Place a cardboard box or a similar non-damaging object in the path of the garage door. Initiate the closing cycle. The door should reverse upon contact with the object. If the door does not reverse, discontinue use of the garage door opener until the issue is diagnosed and resolved.
- **Wiring Inspection:** Visually inspect the sensor wires for any signs of damage, such as fraying, cuts, or exposed conductors. Also, check for any loose connections at the sensors or the garage door opener's terminal block. Repair or replace any damaged wiring promptly.

8. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your 820CB Garage Door Safety Sensors. If the problem persists after following these steps, consult your garage door opener's main user manual or contact professional assistance.

Problem	Possible Cause	Solution
Garage door does not close, or reverses immediately after starting to close.	Sensors are misaligned, obstructed, or dirty.	Check for any physical obstructions in the sensor's path. Realign sensors until both yellow and green LEDs are solid. Clean sensor lenses with a soft cloth.
Green LED on receiving sensor is off or flashing.	Sensor misalignment, obstruction, or faulty wiring to the receiving sensor.	Realign sensors until the green LED is solid. Remove any obstructions. Inspect wiring connections for looseness or damage.
Yellow LED on sending sensor is off.	No power to the sending sensor, or the sending sensor is faulty.	Ensure the garage door opener has power. Check the wiring connections to the sending sensor. If wiring is correct and power is present, the sending sensor may be faulty and require replacement.
Sensors appear connected and aligned, but garage door still doesn't close.	Other issues with the garage door opener system (e.g., limit switches, motor, remote).	This indicates the sensor system may not be the root cause. Consult your garage door opener's main manual for further troubleshooting steps related to other components.

9. SPECIFICATIONS

Below are the technical specifications for the 820CB Garage Door Safety Sensor Kit:

Feature	Detail
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Feature	Detail
Model Number	820CB Garage Door Safety Sensor
Manufacturer	DDcafor
Item Weight	2.72 ounces
Product Dimensions	1.75 x 1.35 x 1.25 inches
Color	820CB (Black)
Material	ABS
Cord Length	13.2 Inches
Included Components	Sending Sensor, Receiving Sensor, Wires, Screws, Connectors
Compatibility	Chamberlain, LiftMaster, Craftsman, Sears, Master Mechanic, Wayne Dalton (1997-current models with Safety Sensor option)
Replaces Part Numbers	41A5034, 2610459, 012381050345, 041A5034, G801CB-P, 801CB, 41A5266-1



Figure 9.1: Detailed dimensions of the 820CB Garage Door Safety Sensor components and installation diagram.

10. WARRANTY AND SUPPORT

DDcafor is committed to customer satisfaction. If you have any questions regarding the purchase, installation, or operation of your 820CB garage door sensor replacement, please do not hesitate to contact us for prompt assistance.

This product is typically covered by a standard return policy, allowing for refund or replacement within 30 days of purchase. For specific warranty details and terms, please refer to the product packaging or contact DDcafor customer support directly.

Seller: Nantain

Amazon Product Link: <https://www.amazon.com/dp/B0CB18G4DN>

