

Telguard GDC1



Universal Z-Wave
Garage Door
Control Switch

Installation Instructions



For installation videos and installation assistance
visit www.telguard.com/GDC1

1. Product Description

The Telguard GDC1 is a Z-Wave garage door opener that is based on Z-Wave® mesh networking technology allowing it to integrate seamlessly with existing Z-Wave controllers from many manufacturers.

The GDC1 is based on the Binary Switch Command Class and may show up in your controller as a light switch. The standard GDC1 functionality will work as follows:

- Turn GDC1 “on” = Open the garage door.
- Turn GDC1 “off” = Close the garage door.

The same should be applied to checking the garage door’s current state: “on” is equal to “opened” and “off” is equal to “closed”.

The GDC1 takes care of all the required safety steps for the unattended operation of a garage door. Before moving from an open to closed position the GDC1 will flash and operate a siren for five seconds to warn occupants that the door is about to move.

It will make two attempts to close a door, but if this fails twice consecutively, the GDC1 will ignore further Z-Wave commands until the door is closed by someone physically in the garage.

This product is for convenience and not for security applications. You should take care to use listed security products if your intention is physical security.

Z-Wave® is a registered trademark of Sigma Designs Inc. and its subsidiaries.

2. Safety Warnings

READ AND FOLLOW ALL INSTRUCTIONS

WARNING

The GDC1 must be mounted in the garage such that its visual and audible warnings can be seen and heard throughout the garage.

WARNING

Never let children operate or play with door controls. Keep the remote control away from children.

WARNING

NEVER GO UNDER A STOPPED, PARTIALLY OPEN DOOR.

WARNING

Do not install the GDC1 on garage door operators manufactured prior to 1993 or on any garage door that does not have an operational safety beam entrapment detection system.

WARNING

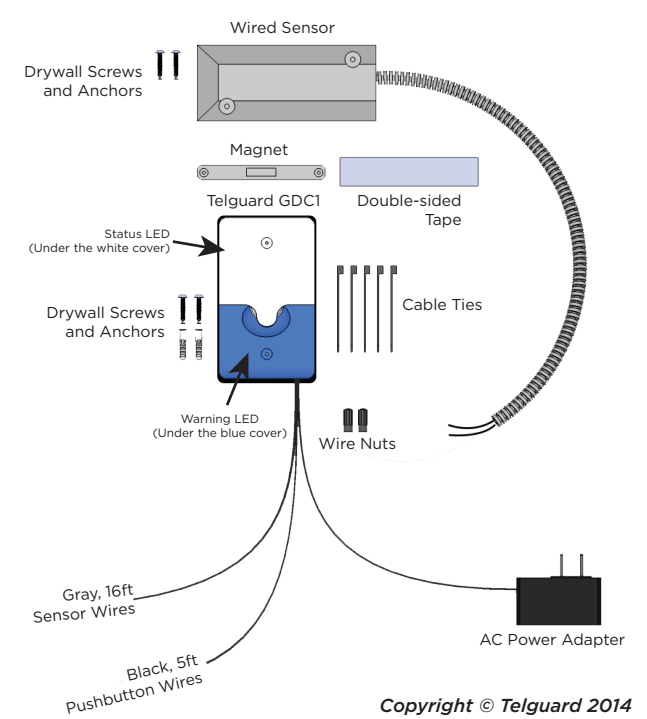
Per UL 325 safety guidelines, only install the GDC1 on sectional (i.e., roll-up) garage doors. DO NOT INSTALL THE GDC1 ON ONE-PIECE DOORS!

WARNING

The GDC1 adds the ability to remotely operate a garage door. This could cause the door to move unexpectedly. NO ONE SHOULD CROSS THE PATH OF A MOVING DOOR!

SAVE THESE INSTRUCTIONS

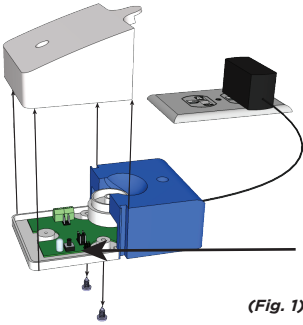
3. Package Contents



4. Pairing with Z-Wave Controller

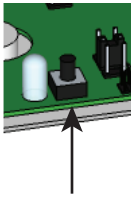
Pairing with the Controller

1. Plug in the GDC1 near your Z-Wave controller.
2. Follow your controller’s instructions for adding devices and place it in learn mode.
3. The controller should automatically discover the GDC1.
4. If that fails:
 - a) Unplug the GDC1 and open the enclosure (Fig. 1)
 - b) Repeat steps 1 and 2.
 - c) Press the Z-Wave Include Button.
 - d) Close the enclosure.



Removing the GDC1

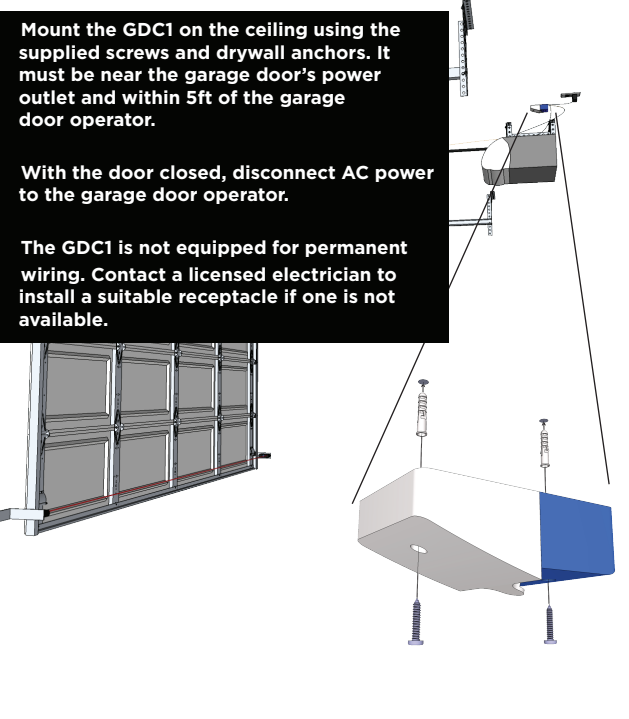
1. Open the GDC1’s enclosure and plug it in near your controller. (Fig. 1)
2. Follow your controller’s instructions for removing devices.
3. When instructed by your controller, press the Z-Wave Include Button to Remove the GDC1.



Z-Wave Include Button

(Fig. 1)

5. Mounting the GDC1

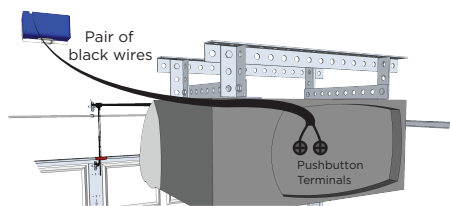


Mount the GDC1 on the ceiling using the supplied screws and drywall anchors. It must be near the garage door’s power outlet and within 5ft of the garage door operator.

With the door closed, disconnect AC power to the garage door operator.

The GDC1 is not equipped for permanent wiring. Contact a licensed electrician to install a suitable receptacle if one is not available.

6. Connecting the Black 5ft Pushbutton Wires



Connect the GDC1's pair of black 5ft wires to the pushbutton terminals on the garage door operator. The terminals may be labeled "PWC", "WC", "PB", "PUSHBUTTON", or "RED AND WHITE". The terminal locations and names vary by model and manufacturer.

Either black wire can be connected to either terminal on the garage door operator.

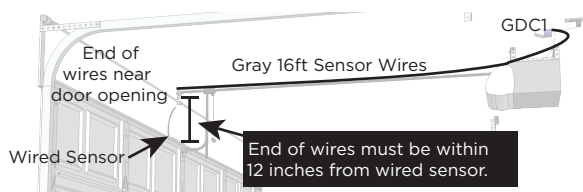
Once connected, you can connect the GDC1's power supply to the AC power outlet near the garage door operator.

Note: If a previously illuminated pushbutton stops working, reverse the wire connections. Some models of garage door pushbutton terminals are incompatible with GDC1. Your operator must support a standard simple pushbutton. Consult your garage door manufacturer's manual to ensure compatibility.

Be sure all wires are clear of all moving parts of the garage door and opener.

DO NOT DISCONNECT ANY WIRES CURRENTLY CONNECTED TO THE GARAGE DOOR OPERATOR.

7. Running the Gray 16ft Sensor Wires



The pre-wired pair of gray 16ft wires must be run from the GDC1 to the top of the garage door.

Be sure the cable is clear of all moving parts of the garage door and opener.

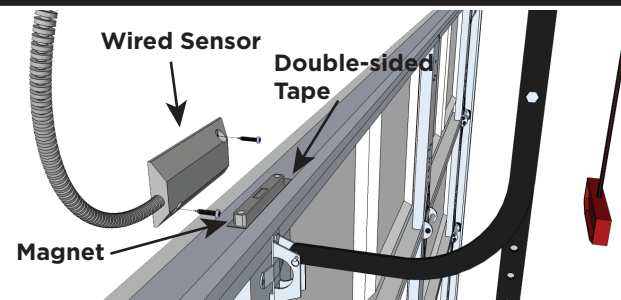
Use the supplied cable ties to ensure that the wires, once installed, don't shift and become entangled with a moving part over time.

Since the wired sensor has shorter wires, make sure the end of the gray 16ft sensor wires near the door opening are within 12 inches of the planned installation location for the wired sensor.

For a clean installation, plan on leaving any excess cable at the end near the door opening. You can trim this to length once all the components are installed.

TIP: Often times the cables to the safety beams traverse to the top of the garage door before splitting and running to the beam emitters. Use these cables as guides when running the sensor cable from the GDC1 to the garage door. Use the cable ties to secure to these cables and to follow the same path.

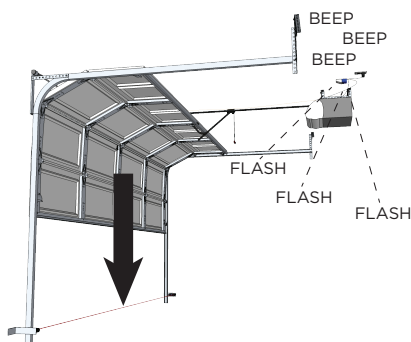
8. Installing the Sensor



Warning: With the garage door closed, make sure AC Power to the garage door operator is disconnected to prevent movement during installation.

1. Mount the wired sensor on the wall just above the top of the door using the supplied screws.
2. Using the supplied wire nuts, connect the sensor's wires to the gray 16ft sensor wires. Either wire can connect to either sensor wire.
3. Under the white cover of the GDC1 there is a slowly flashing red light. Position the magnet directly in front of the wired sensor on top of the door. When the flashing light stops and remains lit then the magnet is in an acceptable location.
4. Using the supplied double-sided tape, mount the magnet in that location. Note: the mounting location should be clean and dry prior to ensure a secure attachment to the door.
5. Reconnect the garage door operator's power and verify that the status light flashes slowly only when the door is open.

9. System Operation



- Sending an "on" or "open" command to the GDC1 will open the door if it isn't already open.
- Sending an "off" or "close" command to the GDC1 will close the door after a five second warning.
- The status of "on" or "open" means the garage door is open.
- The status of "off" or "closed" means the garage door is closed.

10. Troubleshooting

Warning LEDs slowly flash and the GDC1 doesn't respond to Z-Wave commands.	The safety lockout condition has been triggered. Manually close the garage door to reset the GDC1.
The GDC1 was successfully paired with my controller, but doesn't work in the garage.	Z-Wave signals may not reliably reach the garage and you may need to install another Z-Wave device to act as a repeater to increase the range and reliability of your network.
The GDC1 does not pair with my controller, or The Status LED rapidly flashes four times repeatedly.	The GDC1 is a Z-Wave certified binary switch and should work with most controllers supporting light switches. If the auto pairing feature does not pair with your controller, you may need to follow the Remove Process (<i>Step 4</i>) for the GDC1 even though it may never have been paired with your controller.
The Z-Wave status of the garage door shows "On" or "Open" even when the door is closed.	Ensure that the wired sensor is properly installed. The Status LED should remain steady when the door is closed and flash once a second when the door is open.
The GDC1 doesn't power on.	The Status LED will either be solidly lit or flash a status code when powered on. If the Status LED is not lit, you may require a replacement product.

No maintenance is required after following the installation steps.

For more information on using the Telguard GDC1 with various home automation systems visit www.telguard.com/GDC1.