

Open Garage Door Alert (wireless communication, with automatic closing)

For the project <https://github.com/slaout/garage-door-alarm-auto-closer>

User Manual

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Lights and Buttons

Red light "Open"

This light turns on when the garage door is open, accompanied by an audible signal. It starts flashing after 8 minutes if the door remains open, with a sound alert to notify you. Two minutes later, another sound alerts you that the door will close automatically. The automatic closing is then triggered after these two additional minutes: see the green light below (a sound warning occurs at the beginning and middle of these last two minutes inside the garage).

Yellow button "Keep Open" and yellow light "Kept Open"

If you need to keep the door open (for example, for work or extended access to the garden), press this button.

You will no longer receive sound alerts and automatic closing will be deactivated.

To cancel this option, press the button again. The system will return to the "Open" mode with a new 12-minute delay before automatic closing.

This button and light are also available inside the garage for added convenience.

Green button "Close"

Press this button to close the door without using the garage door remote.

The system does not have an "Open" button to avoid any security breach. Closing is the only possible action, with the garage door remote or a physical button inside being more secure for opening the door.

Green light "Closing" (automatic or manual)

This light indicates that the system has initiated the door closing, either manually via the green button or automatically after 12 minutes if you have not pressed the yellow button to keep the door open.

Blue light "Auto-Closed" and blue button "Understood"

When the door has automatically closed in your absence, this blue light turns on to notify you.

Upon your return, press the blue button to turn off the light after acknowledging the automatic closing.

The light remains on even if the power was temporarily cut, ensuring that the information is retained.

Advanced Functions

The blue button "Understood" starts a series of combinations to modify the behavior of the house-side module.

Lower or increase the volume

Hold down the blue button "Understood," then press:
the yellow button "Keep Open" to lower the volume.
the green button "Close" to increase the volume.

The lights will turn on from left to right to indicate the sound level, and a sound will help you evaluate it.

There are five sound levels, plus an option to completely mute the sound.

The volume is retained even after the modules restart, for example, in the event of a temporary power outage.

Enable or disable demo mode

To activate demo mode and speed up state transitions (a few seconds instead of several minutes), hold down the blue button "Understood" for 5 seconds.

The lights will quickly turn on from left to right to indicate activation, or slowly to indicate deactivation.

Demo mode is automatically disabled after each restart.

Mute sound for the next opening

Press the blue button "Understood" four times quickly to mute the sound until the door's next closing.

The lights will fade toward the center to symbolize the sound being muted.

You can reactivate the sound by repeating this procedure: the lights will turn on animatedly from the center to symbolize the sound being restored.

Enable or disable construction mode

To adjust the LED brightness during module construction, hold down the blue button "Understood" for 10 seconds.

All the lights will turn on to allow you to check their intensity and adjust the resistors if necessary.

Press the blue button again to exit this mode.

Troubleshooting

White light "Disconnected"

Flashes if one of the modules fails to communicate with the other.

If this occurs on the garage-side module, it cannot send the door status to the house-side module.

If this occurs on the house-side module, it cannot receive the door status and cannot reliably activate the other lights.

Check the module power, antenna alignment, and soldering condition.

Green light flashing: door closing failure

The system attempts to close the door 4 times, with a 25-second interval between each attempt.

If the failure persists, the green light flashes to inform you.

There may be an object blocking the door, or the door may have been forced to reopen.

Check the relays and connections to the garage door motor. The system uses two relays for enhanced safety in case of failure.

Red and green lights flashing alternately: door status undetectable

If the two door sensors return contradictory information (one indicating an open door and the other a closed door), this alert will display.

Check the sensors and replace them if necessary.

After resolution, press the blue button "Understood" to reset the system if the sensors are in agreement.

The system uses two sensors to prevent command errors after years of use or corrosion from humidity.