

# 1. The Product

## 1.1 Outline

The RF keyfob transmitter is primarily used for remote garage door closing and locking/unlocking and opening.

It is part of a system which also includes an RF receiver. The receiver, which is located in the garage, receives, demodulates and decodes the RF transmission from the keyfob. This decoded transmission controls the action of the lock as well as the garage door opener.

## 1.2 Appearance

The keyfob consists of a black plastic case with rubberized buttons. The size is approximately 2.7" x 1.8" (69mm x 46mm).

There is a single red LED visible to the user to provide feedback to the user that an RF transmission has been made. The LED also indicates a low battery condition to the user.

## 1.3 Transmission Format

The signals transmitted from the keyfob are encoded using PWM, employing 66 bits of data, with a modulation frequency of 833Hz and 100% amplitude modulation.

## 1.4 General Block Diagram

