

Operational Description

In transmitter, rotary switch is communicative with the transmitter microcontroller which produces a serial coded waveform based on the selected position of the rotary switch once the button is pressed. The transmitter microcontroller is communicative with the RF transmitter module that generates an RF frequency and modulates the carrier frequency to represent the serial coded waveform. The modulated carrier frequency signal is transmitted through transmitter antenna.

The receiver antenna captures the modulated carrier frequency signal emitted by the transmitter. The receiver antenna is communicative with the RF receiver. The RF receiver demodulates the modulated carrier frequency signal into a serial coded waveform. The RF receiver is communicative with the receiver microcontroller which decodes the serial coded waveform and determines whether to send a square wave to activate buzzer.

Once the selected receiver buzzer is activated, the user locates the receiver and presses the button to reset the circuit, thus turning off the buzzer.