

Laser Based Security **System**

Components List:

1. Laser Transmitter

- a. Laser Diode
- b. Power Supply

2. Signal Transmitter and Laser Receiver

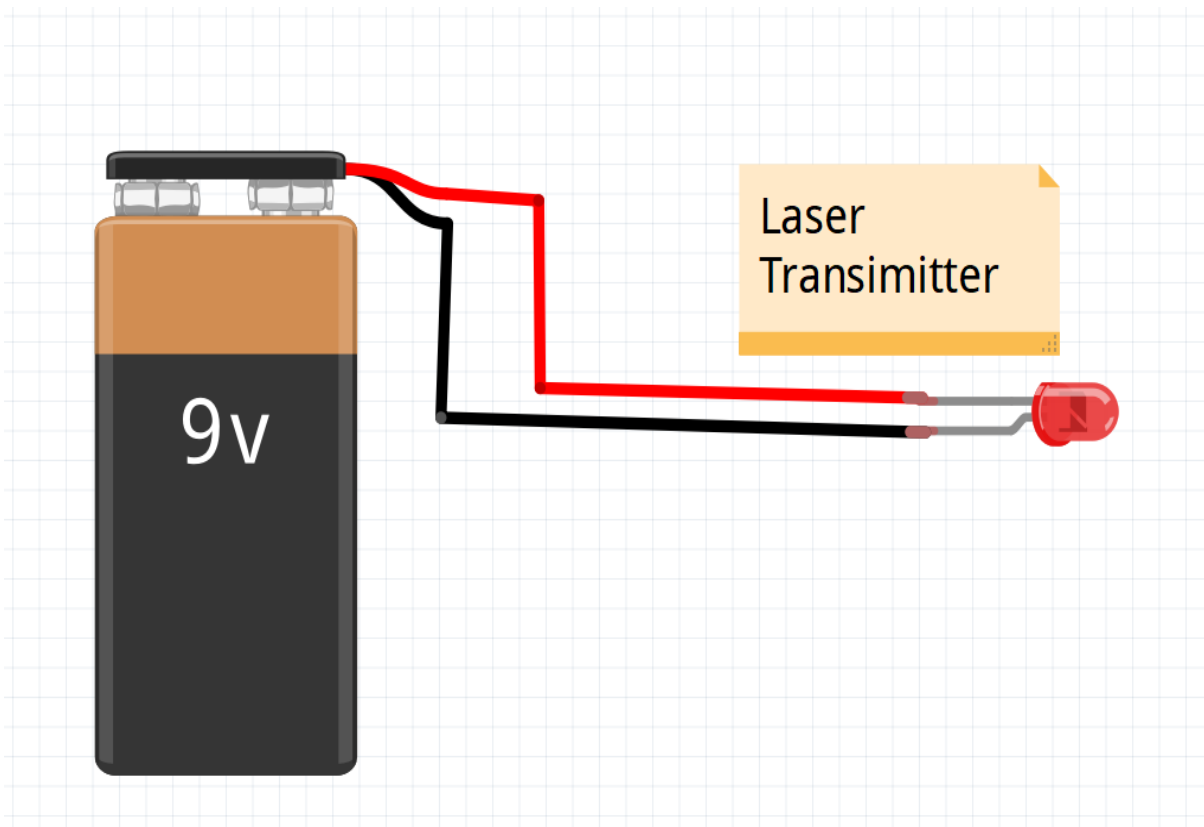
- a. Arduino Nano / pro mini
- b. LDR (Light Dependent Resistor)
- c. Resistor 10k ohm
- d. NRF-24 transceiver Module

3. Signal Receiver

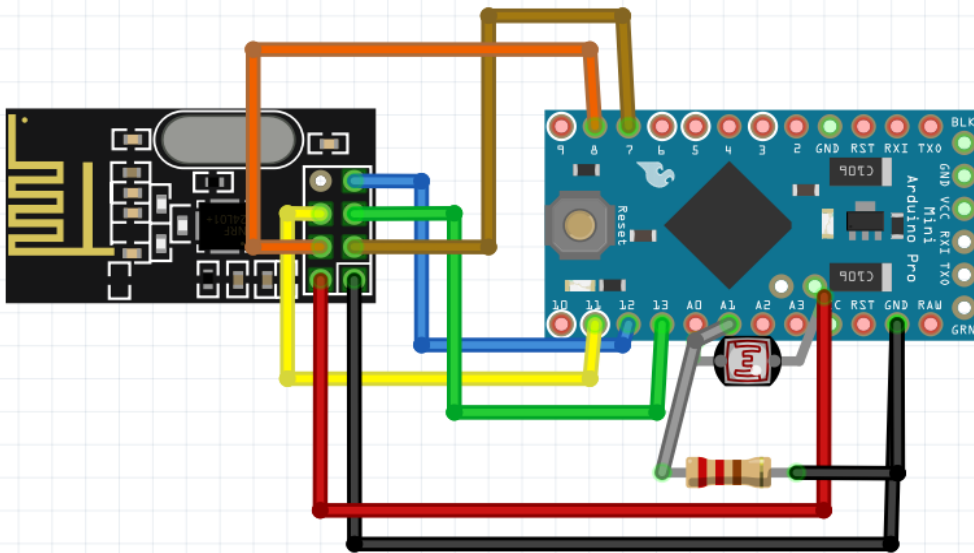
- a. Arduino Nano / pro mini
- b. Resistor 10k ohm
- c. NRF-24 transceiver Module
- d. LED and Buzzer for Indication
- e. Push Button

Circuit Diagrams

1. Laser Transmitter

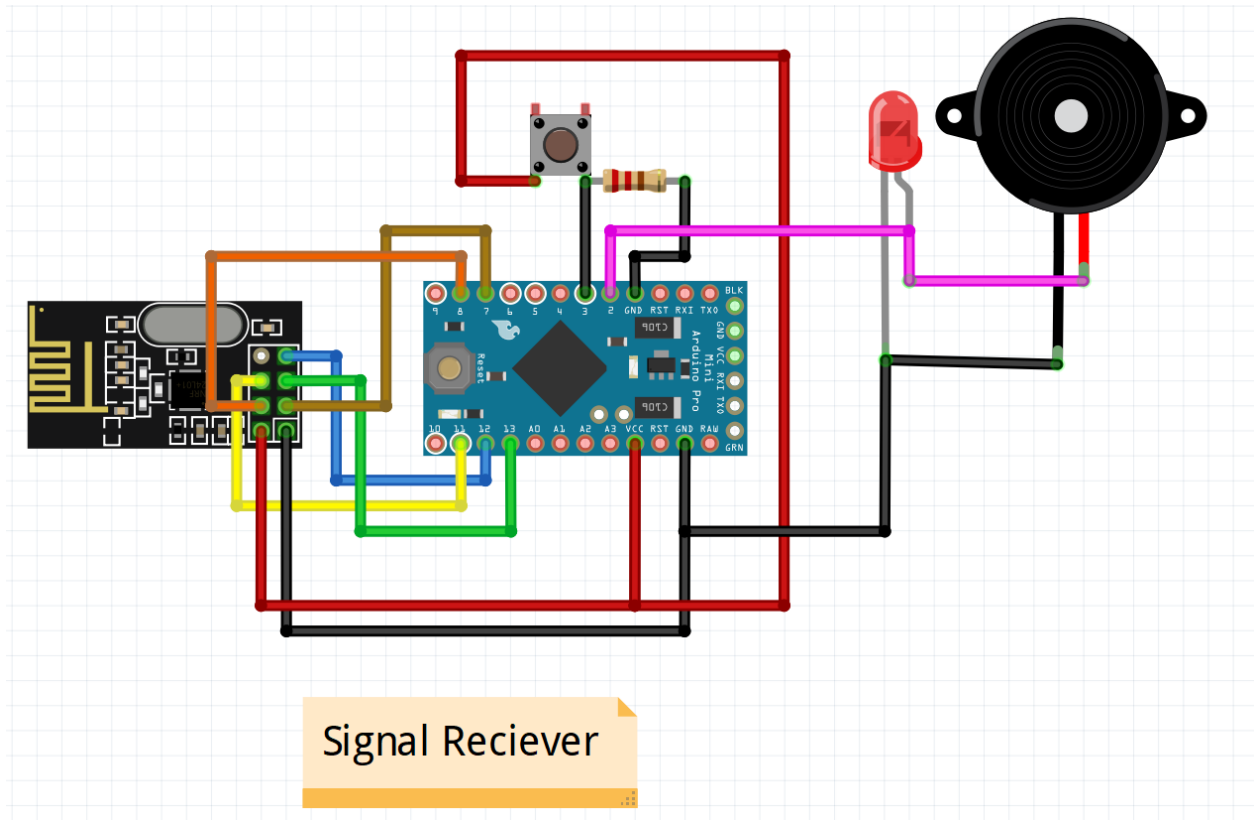


2. Signal Transmitter and Laser Receiver



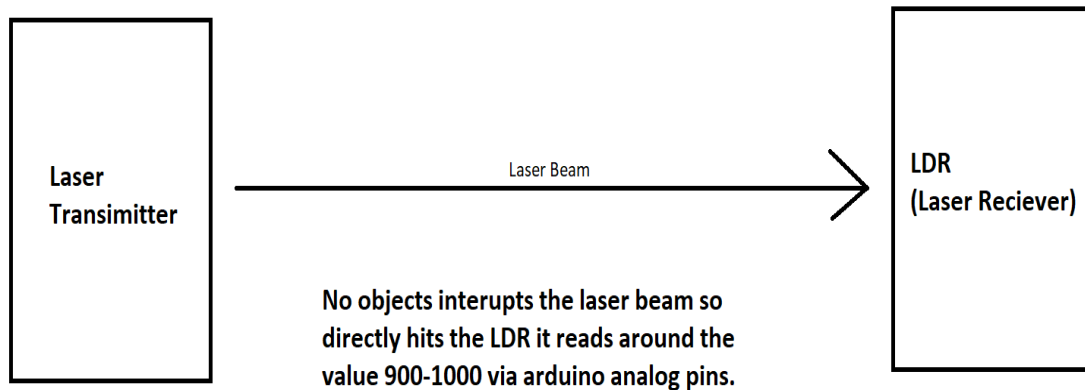
Laser Receiver and
Signal Transmitter

3. Signal Receiver



How it Works? :

- ✓ **Case 1: When No objects interrupts the laser beam.**



✓ **Case 2: When an object interrupts the laser beam.**

