

Contactless Smart Doorbell System

<https://youtu.be/FS1ZbEQaCVk>

Social distancing is the one of the best methods to escape from COVID-19. I strongly recommend staying at home. But we can't avoid some emergency visits to some homes. When we arrived at in front of a house, first we search the doorbell button/ calling bell button.

But in this special situation this doorbell button can cause the virus to spread. When some infected person presses the button, the virus holds on that button and when a non-infected person touches this button the virus spread to that person.

This problem can be solved by making a touch-less doorbell where you can put your hand in front of the sensor and a buzzer sound will be generated from inside.

The main objectives of the project are:

- Design a touchless door bell.
- SR04 sensor to detect presence of hand.
- Audible alerts using BUZZER.
- Using Arduino Uno to achieve this task.

The major building blocks of this project are:

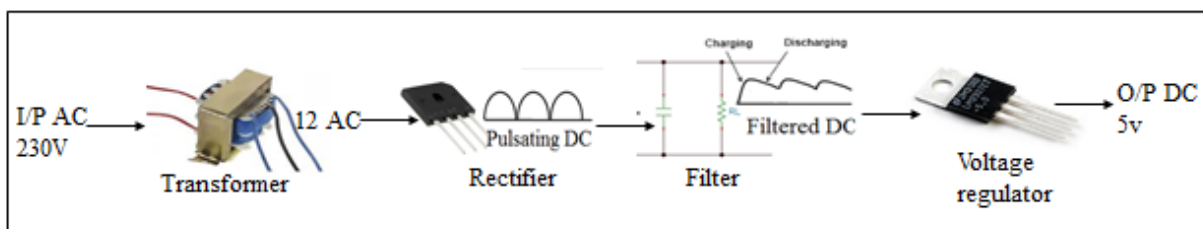
- Arduino UNO

- SR04
- Buzzer.

Software's used:

- Arduino IDE for compiling and dumping code into Microcontroller
- Express SCH for Circuit design.
- Proteus for hardware simulation.

Regulated Power Supply:



Block Diagram:

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