



# UNIVERSITI TEKNOLOGI MARA

BURGLAR ALARM

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## ABSTRACT

Burglar alarm is an apparatus, which is used to give warning through the sound of bell or noises. This gadget is used to protect the owner's property from being broken into or stolen. In project, the alarm is hanging at doorknob, in more details we use a bare wire as a sensor and put at Door Knob when someone touch the Door Knob the sensor will detect and activate and activate the siren. The siren will give a beeping sound as a warning to owners. To stop the alarm we use a remote control to stop the beeping sound and activate the circuit back. It is more easily to owners using a remote control rather than switch. This Alarm will not effect to people who touch the Door Knob because there is no current at the Door Knob but this circuit is use for detect a touch only.

## Introduction

Alarm system is defined as a device for fear or anxiety that is felt when danger or bad news is expected. The alarm is an apparatus that gives a warning to the owner when a stranger comes to their house without permission or wanted. Burglar alarm is one of type of alarm.

This alarm system has been combined with remote control. We think that using a remote control is more easier to open the door without the noise from alarm circuit. When alarm circuit is activated we can close the alarm system with remote control. This alarm circuit is using only one integrated circuit (4011) is a quad NAND. This alarm system circuit using ten resistors, one variable resistor (to detect the sensitivity of sensor), one LED (to make sure the circuit is activate), one inductor, four transistors, and one power supply.

For the transmitter circuit, we use two integrated circuits (PT2272-L4 and 945), one regulator, sixteen resistors, thirteen capacitors, two diodes and four transistors, one relay, and 12V power supply.

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