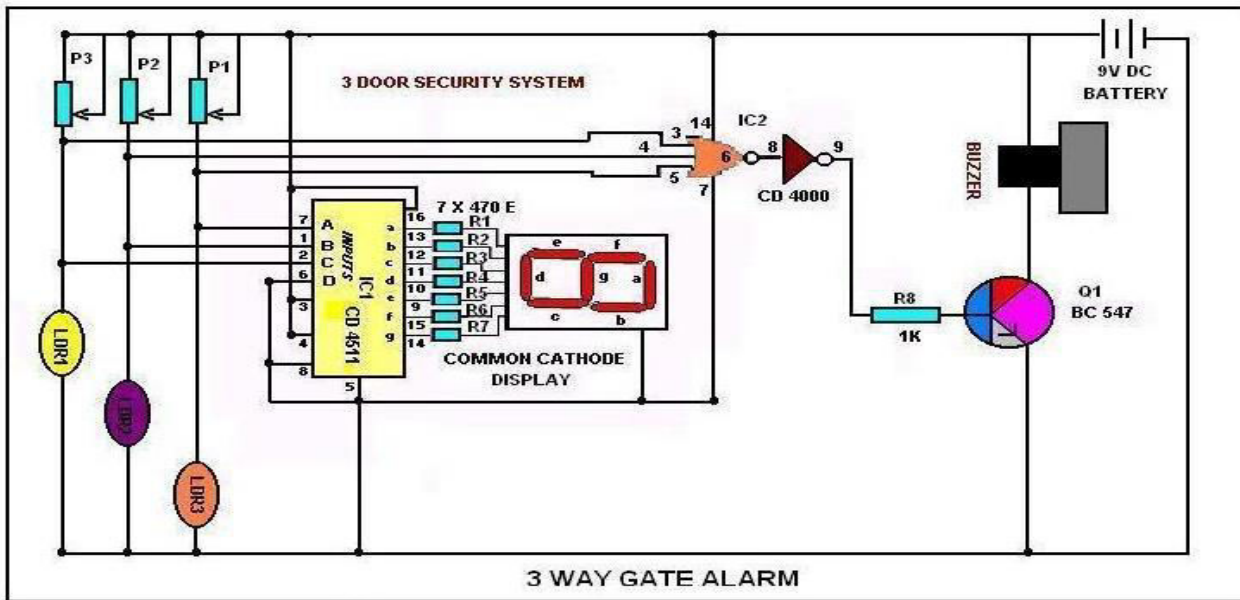## 3way Gate Alarm

This is a zonal security system which displays the zone when trespassed by the intruders. The circuit has a seven segment display indicating the gate number.

This circuit has 3 LDR sensors which are to be placed at 3 different gates of a secured area. The circuit has a binary coded display driver CD 4511 inputted by the LDR sensed voltage. The LDR inputs, '0' or '1' logic value to the input of the IC-1. The LDR which is sensed by an intruder will give a high logic output resulting in displaying the corresponding decimal value of the input. This display Number will be the gate number of the trespassed area.

This circuit has also has an 'nor' gate (IC-2 CD 4000) to switch ON an alarm whenever any LDR is sensed. This operates with a 9volt battery.

Components: LDR1, LDR2, LDR3, P1, P2, P3-100K POT, IC1-CD4511, IC2-CD4000, Q1-BC547, BUZZER, LT543-Common Cathode Display, R1 to R7-470E, R8-1k, 9volt Battery, Battery Snapper.