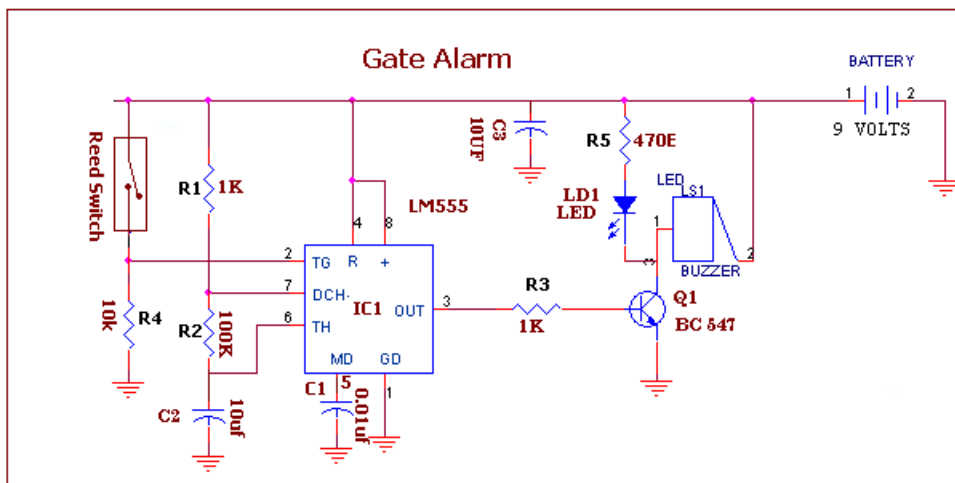


GATE ALARM:



In this circuit, the reed switch is the main sensing component that works with a magnet. The reed switch closes the circuit in presence of a magnet and opens when the magnet is moved out. Based on this concept a magnet can be placed at the gate edge activating the reed switch. Pin no.2 of IC 555 is triggered by R4 (10k resistor) getting grounded when the magnet is moved out of the reed switch or if the gate is opened. When the input pin 2 is triggered, the output of IC 555 is switched ON for a delay period of 2 seconds; the time is decided by R2 & C2. The output at pin no-3 switches ON a buzzer using Q1 the NPN Transistor BC 547 and the circuit is operated with a 9Volt battery.

Components used: R1 = 1k resistor, R2 = 100k resistor, R3 = 1k Resistor, R4 = 10k resistor, R5 = 470E resistor, C1 = 0.01uf capacitor, C2 = 10uf capacitor, C3 = 10uf capacitor, Q1 = BC 547 NPN Transistor, LS1 = L E D, IC 1 = LM 555 (with base), Battery = 9volt, Battery snapper, Buzzer.

