

X*32789790+abcd=?????????????

3784.7565/xyzs*??????=61.2178

Passwordlzxvbnmqwertyuio pas

dfghjkl pasdfg

hijklzxc dfghjk

lzxvbn hijklzx

cvbnm klzxcvb

nmqwe cvbnm

codeed mqwerty

tyuiopa wertyu

thisishow****passwordprotectio

nxyzadtechnologyeditionasdfghj

klzxcvbnmqwertyuio pasdfghjklz

xcvbnmqwertyuio pasdfthisiswha

tan*****passwordzxcvbn

Making of Electronic Code lock

Make a Password Protected Circuit with simple
Electronics

Shahzad Saeed

Electronic Code Lock

An electronic lock is a locking device which operates by means of electric current. Electric locks are sometimes stand-alone with an electronic control assembly mounted directly to the lock. More often electric locks are connected to an access control system. The advantages of an electric lock connected to an access control system include: key control, where keys can be added and removed without re-keying the lock cylinder; fine access control, where time and place are factors; and transaction logging, where activity is recorded.

Apparatus Required

- IC
- Relays
- Transistor
- Capacitor
- Switches
- LED
- Diode
- Resistors

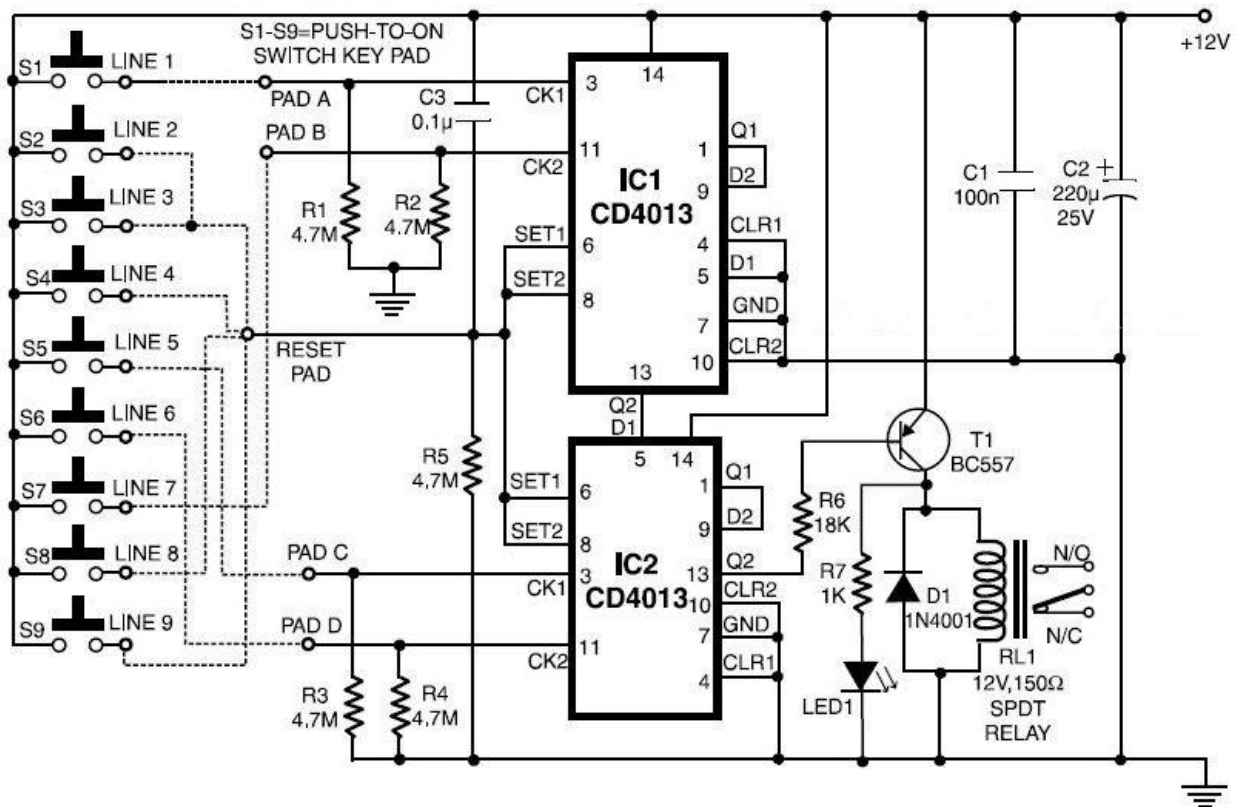
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Circuit Diagram



Circuit Description

The circuit is based upon 2 CD4013 dual-D flip-flop ICs. A, B, C and D pads are connected to the clock pins of the four flip-flops. The correct code sequence for energisation of relay RL1 is realised by clocking points A, B, C and D in that order. All the flip-flops are reset by remaining switches. Touching the key pad switch A/B/C/ alters the state of the flip-flop. The Q output pin of each flip-flop is wired to D input pin of the next flip-flop while D pin of the first flip-flop is grounded. This is how the circuit works.

Features

- Circuit can open only if right amount of four keys are entered.
- It provides protection similar to password protection.
- The circuit is easy to implement and of low cost.

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