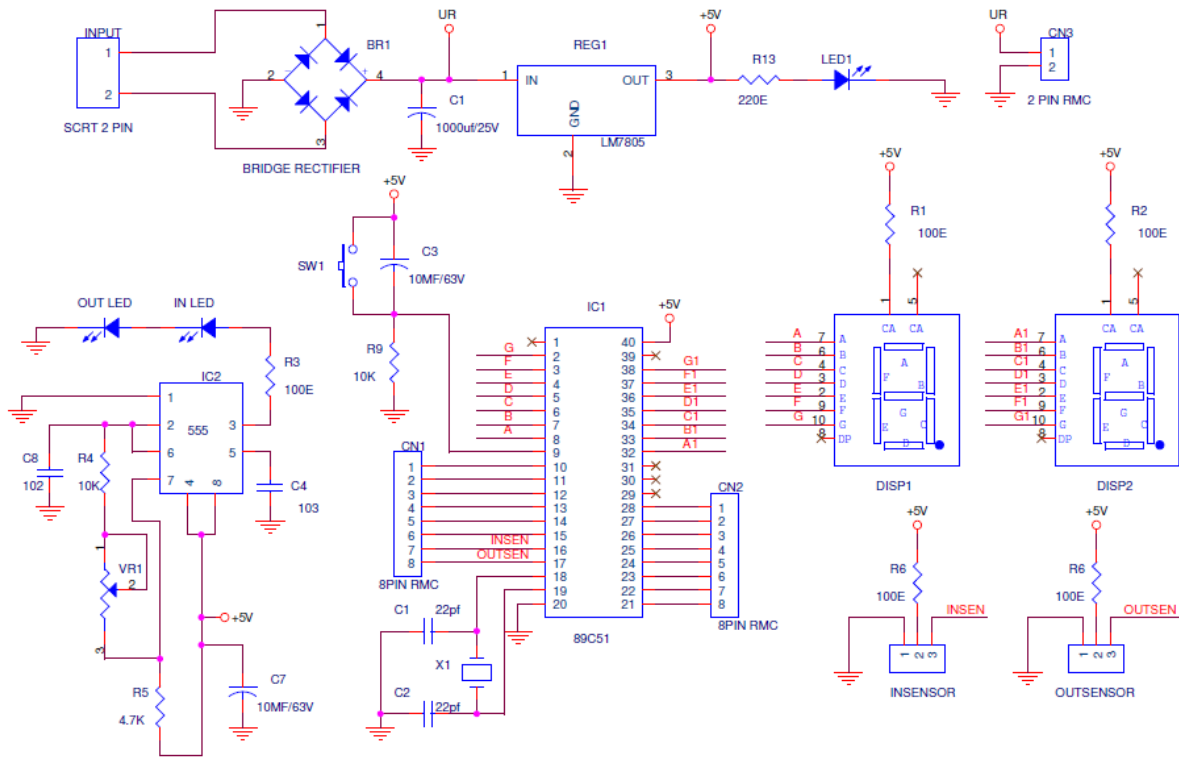


A counter that can change its state in either direction, under control of an up–down selector input, is known as an up–down counter. The circuit given here can count numbers from 0 to 99 in up and down modes depending upon the state of the selector. It can be used to count the number of persons entering a hall in the up mode at entrance gate. In the down mode, it can count the number of persons leaving the hall by decrementing the count at exit gate. It can also be used at gates of parking areas and other public places.

This circuit divided in three parts: sensor, controller and counter display. The sensor would observe an interruption and provide an input to the controller which would run the counter in up/down mode depending upon the selector setting. The same count is displayed on a set of 7-segment displays through the controller.

This project makes use of AT89c51 Microcontroller to accept inputs from Up/Down sensors (TSOP1738) and Increment / Decrement Count Respectively. The whole circuit requires +5V regulated power supply which is served by Power supply unit, comprises of Bridge Rectifier, filter, Regulator (7805).

UP/DOWN OBJECT COUNTER (HB 15)



Size: 20* 7 Cm



******* Caution Apply 12 AC via 12-0 V Step down transformer or battery**