**Fire Detector with Alarm**   **Code: HB9**

At times we forget to switch off our heating devices and eventually they get damaged. Therefore there is always a need of a device which can alert by sounding an alarm if the device temperature goes beyond a particular value. Same concept can be used in this project about fire alarm. If a building catches fire then it will raise an alarm and people could evacuate the building. This circuit uses a LM35 temperature sensor along with a CD 3130 comparator

Circuit:

FIRE DECTECTOR WITH ALARM (HB9)
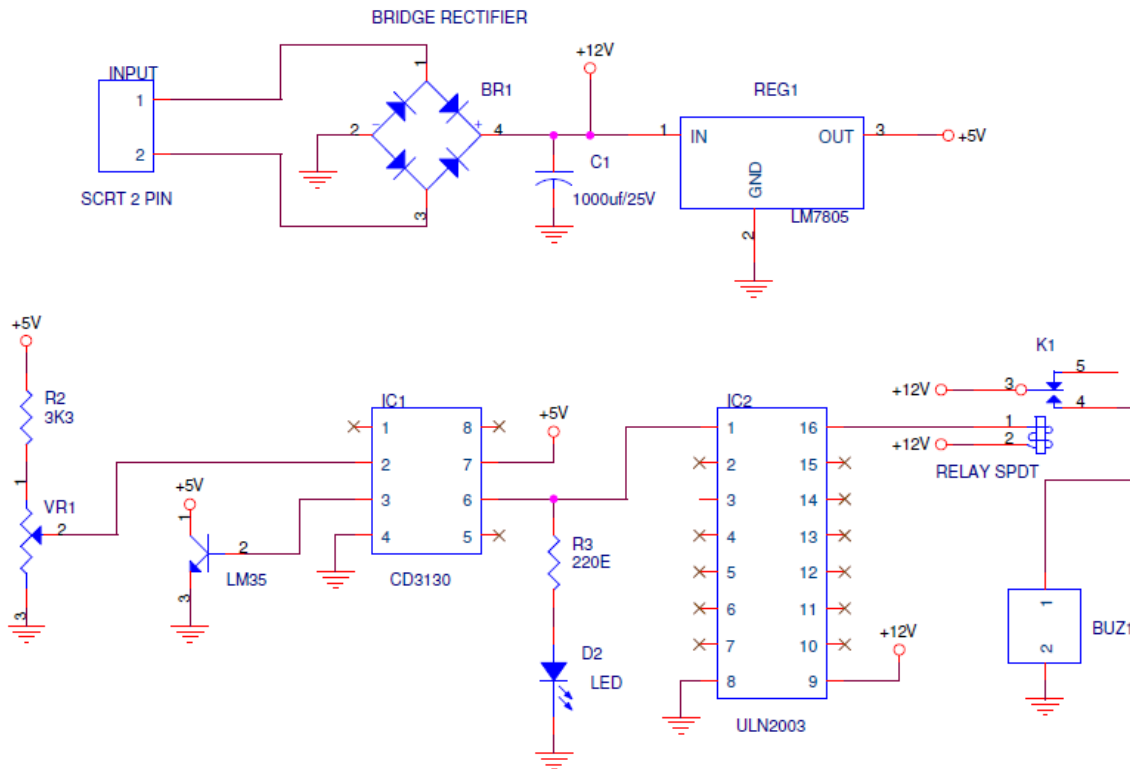
This project about **fire alarm circuit** is based around LM35 which is a temperature sensor and could be used to switch an alarm when temperature goes beyond a preset value. In this circuit the output of LM35 is fed to the negative pin of comparator of CD3130. The positive input is connected to a preset VR1 of value 10K. This preset is used to set the reference temperature. If output of LM35 is less than V reference than the output of comparator is low.

When the temperature exceeds the reference temperature, the output of the comparator becomes high and trigger ULN2003 (Relay driver), and thereby Relay and the buzzer makes a sound to alert the rise in temperature.

Size: 8.5 * 5 cm

****** Caution Apply 12 AC via 12V Step down transformer