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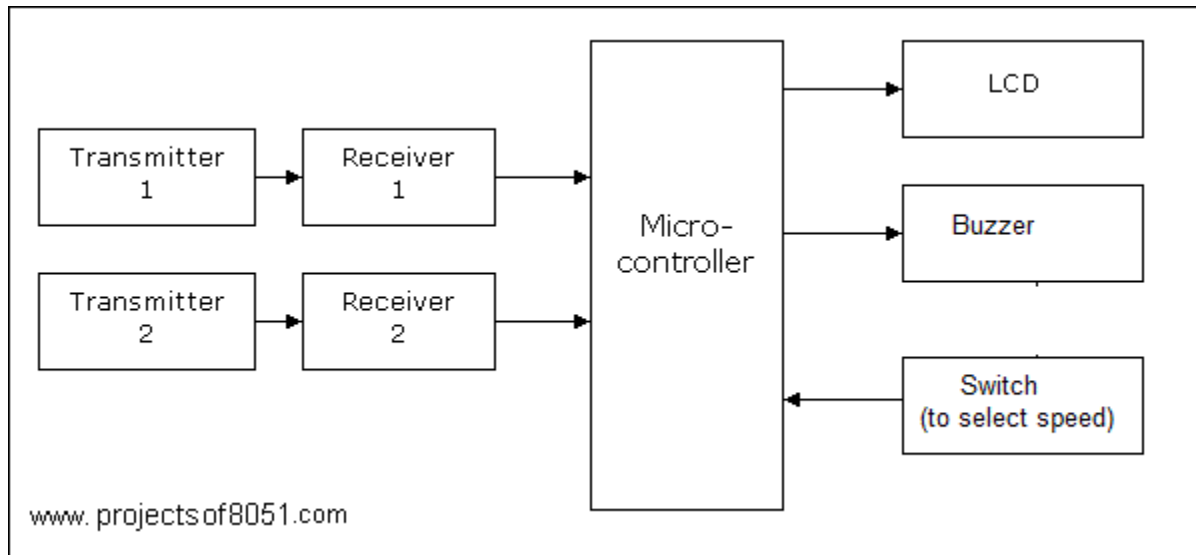
<http://www.projectsof8051.com/speed-checker-and-overspeed-detection-for-highways/>

Code	Project Title
1275	Speed checker for highways

Synopsis for Speed checker for highways

1. Introduction

While driving on highways, motorists tend to exceed the maximum permissible speed limit set by the traffic department. The speed checker implemented here is a low cost solution which will allow the traffic digital reading corresponding to the vehicle's speed & also sounds an alarm if the vehicle exceeds the permissible speed for highway. The speed-sensing is done by the means of two laser transmitter-LDR sensor pairs. These are installed on the highway 100meters apart, with the transmitter & LDR sensor of each pair on the opposite sides of the road. The system displays the time taken by the vehicle to cross this 100 m distance from one pair to the other with a resolution of 0.01 second. The speed of the vehicle can be calculated from the simple speed-time-distance.



The speed checker for highways implemented here assumes that the maximum permissible speed for highways is either 40Kmph or 60 Kmph as per the traffic rule. Slides switch S1 to select the speed limit i.e. either 40Kmph or 60 Kmph.

Normally, light from the laser keeps falling on the LDR sensor continuously & thus the LDR offers a low resistance & pin2 of IC1 is high. Whenever light falling in the LDR is interrupted by any vehicle, the LDR resistance goes high

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