

EMERGENCY RESPONSE HORN FOR LOW COST BIKES

N. DINESH KUMAR¹, P. PRUDHVI RAJ², R. PAVAN KUMAR³ & V. SAIRAM CHAITANYA⁴

¹Associate Professor & HOD, Department of EIE, Vignan Institute of Technology & Science, Deshmukhi,
Andhra Pradesh, India

^{2,3,4}Student, Department of Electronics & Instrumentation Engineering, Vignan Institute of Technology & Science,
Deshmukhi, Andhra Pradesh, India

ABSTRACT

This paper on Emergency response horn for vehicles intends to reduce the risk of accidents that may occur at any moment. Most of the accidents take place due to high speed driving. The module is designed by placing the IR transmitter and the receiver on either sides of the bike's wheel. The transmitter transmits infrared light through rotating wheel. When it completes one rotation, the receiver receives one clock pulse. So, depending on the number of clock pulses, speed of the vehicle is measured and is given to a microcontroller. Microcontroller is programmed such that, when speed reaches or goes beyond certain value, Ultrasonic sensor placed in front of the vehicle gets activated to sense any object or vehicle which is in close proximity of the subject vehicle and gives a warning through a buzzer sound alerting the motorists.

KEYWORDS: IR Module, Microcontroller, Ultrasonic Sensor