MPMC LAB MINI PROJECT ABSTRACT

MOTION SENSING STREETLIGHT

GROUP B-14

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BRIEF DESCRIPTION

This project aims to model a real life lighting system on one-way bridges, prevalent in the region.

It aims to perform the following functions:

1. Reduce Power Consumption by controlling the light based on motion
2. Check the density of vehicles on the bridge at a given time.

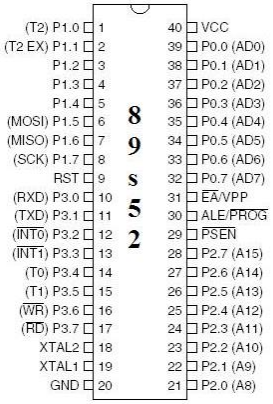
WORKING

1. IR Sensors placed on one side of the bridge help control the lighting by detecting motion.
2. If the number of vehicles on the bridge is more than the specified safety limit, then a warning to stop further vehicles shall be shown using LED.

COMPONENTS REQUIRED

1. AT89S52 Atmel Microcontroller - 01
2. IR Sensors - 10
3. LEDs - 10
4. Resistors (330 ohm) - 10

AT89S52



IR SENSOR - HC-SR501 PIR Sensor

BLOCK DIAGRAM