AUTOMATIC STREET LIGHT TO SAVE ELECTRICITY

ABSTRACT

Automatic control of street lights is designed to turn on and turn off street lights automatically. This project checks the amount of light. If light is 80 percent available, it automatically turns off street lights. But if amount of light is less than 80 percent, this project will automatically turn on street lights. One can also adjust it according to its requirement. Light sensor is used to detect intensity of light. Atmega328 microcontroller is used interfaced with light sensor to sense amount of light available. Control signal is generated with the help of a microcontroller after analyzing amount of light. Control signal generated by microcontroller is used to turn on transistor which in turn energize the relay coil and relay turn on the street light. I have used only one lamp in this project because this is just for demonstration purpose. To use it practically, you can use as many street lights as many you want to control through this automatic control of street lights.

Block Diagram: