

Automatic Street Cum-Porch Light

Dhiraj Jadhav, Abhay Taur, Om Dudhbhate, Mete Abhijeet, Swami Mahesh. V.

Department of Electronics and Telecommunication Engineering
Vishweshwarayya Abhiyantriki Padvika Mahavidyalaya, Almala, India

Abstract: *This paper presents the development and implementation of an automatic lighting system designed to control street and porch lights based on ambient light levels and motion detection. The proposed system aims to reduce energy consumption and improve safety by using sensors to activate lighting only when necessary. The system integrates LDR (Light Dependent Resistor) for daylight sensing and PIR (Passive Infrared) sensors for motion detection. The design is cost-effective, energy-efficient, and suitable for urban and rural deployments.*

Keywords: LDR, LM358, Relay, NE555

