

Traffic Signal Control with Emergency Override

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I. Background

Construct a traffic monitoring signal using a microprocessor and counters. The counter counts the number of vehicles that passed and would automatically change the color of the light to yellow then to green if it has reached the number of vehicles programmed. There will be a remote control provided to the emergency responders such as ambulances, fire trucks and the like, in order for them to pass by without any delay.

II. Project Description

This project is a monitoring signal that counts the programmed amount of cars to pass through before changing the light of the traffic light from green to yellow to red and vice-versa. The program will allow emergency respondents such as ambulances, fire trucks and the like for them to pass through without being counted and to pass by without any delay.

III. Project Specification

IV. Implementation Details

a. Circuit Description

i. Schematic/Logic Diagram

b. Flowchart

c. Program/Code/Algorithm Description

d. Work Assignment of Members

V. Test & Results

VI. Conclusion & Recommendation

VII. Reference

- a. Goel, Akshat, Microprocessor Projects, August 3, 2018, engineering.eckovation.com/microprocessor-projects, March 10, 2021 Traffic Light Control Electronic Project using IC 4017 & 555 Timer, electricaltechnology.org/2014/10/traffic-light-control-electronic-project.html, March 10, 2021

VIII. Appendix

a. Bill of Materials