ABSTRACT

PROTOTYPE TRAFFIC LIGHT FOR USE IN THE JUNCTION LAMPUNG UNIVERSITY PROGRAMABLE LOGIC CONTROLLER (PLC)

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System Traffic Light at the intersection Unila still use the timer in general are less able to cope with problems that often occur at the junction of the number of vehicles queuing at the intersection of so many who violate the tide of the infrared sensors in detecting the presence of solid density to determine its existing vehicle at the intersection Unila and installed a camera along with an alarm function so it knows which often violate traffic vehicles. In this study, the model developed Traffic Light, each lane is not the same number of vehicles therefore the queue length is not evenly by considering the queue length is known by infrared sensors. Sensors can alter the normal time beginning 30 seconds to 60 seconds, and the camera sensor can be ordered manangkap vehicles that violate traffic. Prototype as expected by testing the intersection first response in case of error of 12%, 34% 2 intersection, and the intersection of 3 by 36%. Response testing violations may work well for less than 1 second.

Keywords : Traffic Light , Infrared Sensor Density , Traffic Violations