MONITORING MEASUREMENT SYSTEM OF SPEED TRAIN IN POLE SIGNAL LIGHT ENTRY STATION AREA

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ABSTRACT

The train is one of public transport the commonly used of Indonesian and has a particular line so that trip by train is expected to be safer for the passenger train also other vehicle users. On the railway line there is a warning signal lights to limit the speed of a moving train in accordance with safety procedures on a train. But accidents frequently occur because the train driver did not comply with the safety procedures that had been developed by the train. This monitoring system will measure the speed of a train on the pole warning signal light that the speed of the train can be measured and controlled by the station.

This monitoring system based on microcontroller use two sets light sensor consists of a laser pointer and a photodiode are mounted on two parallel point, where the light sensor circuit 1 is used to start the calculation speed by comparing distance time to the light sensor 2. After calculated the speed of the train, the data will be displayed on the screen in the station.

Through this way is expected the station can supervise more detail speed trains in operation. So that violation the train driver of the safety procedures on a train is not much going on anymore.

Keywords: Speed, Photodiode, Laser Pointer, Microcontroller
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