INFRA-RED PROXIMITY DETECTOR

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ABSTRACT

From this report, I am going to describe about the project I do and how much time spent. It is distinctly a device that can detect the proximities alarm the user to know what the distance level is. By using the characteristics of the Infra-red, we can transmit it to the any target and receive the signal which is reflected from the target. From how much the intensity of signal received we can know what distance between the transmitter and the obstacle. Because the distance the infra-red beam go through it will be inversely proportional to the intensity of the infra-beam. By the word, the distance become bigger and the intensity of receiving signal will thus smaller.

It can safely detect the level of liquid in a tank without any contact with the liquid itself. The device's range can be set from a couple of cm to about 50cm by means of a timer. My design worked by using an infra0red pair to measure the distance and then use three LEDs to be outputs. The LEDs will show the grade of proximity in corresponding distance.

Some f the knowledge that we learned before, such as the logic operation of the integrated circuits can be applied in this project. Besides it, the basic operation of the circuit is essential to make sure the circuit can operate in the desired way.

Though the Oral Presentation and Poster Presentation are parts of this project, I can practice myself on how to communicate with and demonstrate the project to the people, and make sure that the important information of this project can be conducted to the examiners and also those who are interested to this project.