UNIVERSITI TEKNOLOGI MARA
KAMPUS BUKIT MERTAJAM
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FINAL REPORT OF DIPLOMA PROJECT

FACULTY OF ELECTRICAL ENGINEERING

IR LASER LIGHT DETECTOR

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ACKNOWLEDGEMENT

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2.0 ABSTRACT

As we know, the process of transmitter and receiver is intends to be a framework for providing a comfortable usage in the communication system for human being. In the communications system, which signal or information has been transmitting and receiving waveform? But in this project, IR laser light will use in process of transmitted and received.

This project show how to IR laser light detector will be used in process of receiving system. In this project we only concentrate about the receiver or IR laser light detector. The circuit used phototransistors to detect the IR laser light. When the laser light has transmitted directly to the phototransistor, the circuit automatically ON and the signal received will be amplified by audio op-amp and change it to sound.

Our project has a very bright future to be a useful and high important device in either manufacturing industries or been used commercially as an automatic switch system.

Finally, the objective of the report to study how to design PCB layout, understand about the operation and setting this project to an automatic switch system. In this report we also studied to consider for the system designed. Otherwise, we also have discussed and studied the component, which used in the IR laser light detector circuit diagram.

3.0 INTRODUCTION.

Modern life is not easy and technologies was sucess.There for, we introduced this report outlines the design of Infrared Laser Light Detector as an automatic switch which used at conveyer in manufacturing industries.

The system that operates by implementing basic principle of operational Amplifier like LM386 and uA741. This system used infrared laser light as input signal.

We are hoping that this project will fulfill all the desired requirements for our final year project two and hope that it will also increse our engineering knowledge.This report will take us to the understanding of the whole system of our project design ensuring with the basic knowledge about this system.