

ELECTRONIC CONTROLLED GARAGE LIGHTING

Project Report Submitted by:

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INTRODUCTION

The main objective of the present study is to design, construct, install and test an electronic controlled garage lighting system. In simple terms, an incandescent lamp must be operated without any use of switches (automatically).

During the last few years, some other, very interesting, approaches towards the solution of this problem have been made. One of them was using the weight of the vehicle in order to press a switch, which was placed under-ground in the garage. In this method mechanical switches were used, making the system vulnerable to corrosion problems as the time passes.

In the present study, another, better approach was adopted to solve this problem. By the use of light and special electronic sensors, the incandescent lamp is turned ON. This study provides a successful, reliable and effective system capable to electronically control the garage light.

As the reader progress through the pages of the study, he will come across simple circuits and theory, but also complicated digital electronics (chapter 1). The design procedure as well as the construction of the system are illustrated in chapters 2 and 3. At the end, the reader can come across to testing procedures of this system (chapter 4).

Finally, before the end of the beginning, I would like to urge the reader to patiently skip through the pages, in order to gain full knowledge and understanding of the primary theoretical aspects and the philosophy of facing the matter before plugging into the major study.

CONTENTS

	Page
INTRODUCTION.....	1
CHAPTER 1 - BACKGROUND THEORY	
1.1 Opto-Electronic Devices.....	3
1.1.1 Characteristics of Light.....	3
1.2 Photoconductive Cells.....	4
1.2.1 Photoconductive Process.....	6
1.2.2 Photoconductive Cell Ratings and Specifications.....	7
1.3 Bipolar Junction Transistors.....	8
1.3.1 Basic Transistor Operation.....	9
1.3.2 Transistor as a Switch.....	12
1.3.3 Transistor Specification Sheet.....	14
1.4 Operational - Amplifiers.....	14
1.4.1 Comparator.....	15
1.4.2 Types of Comparators.....	17
1.5 555 IC Timer.....	17
1.5.1 Introduction.....	17
1.5.2 Basic Operation.....	18
1.5.3 The 555 as a One-Shot.....	19
CHAPTER 2 - BLOCK DIAGRAM OF THE SYSTEM	
2.1 Block Diagram.....	22
2.2.1 Explanation.....	22

CHAPTER 3 - DESIGN AND CONSTRUCTION

3.1	Circuit Design.....	25
3.1.1	Power Supply Unit.....	25
3.1.2	Light-Sensor System.....	28
3.1.3	555 Timer Circuit.....	29
3.1.4	Driving Circuit - Load.....	31
3.1.5	Final Circuit.....	32
3.2	Construction of PCB.....	32

CHAPTER 4 - TESTING AND TROUBLESHOOTING AIDS

4.1	Testing.....	35
4.1.1	Test Points.....	35
4.2	Troubleshooting Aids.....	38
4.2.1	Failure of the Regulator.....	38
4.2.2	Failure of the Photoresistor.....	38
4.2.3	R_4 Open-Circuited.....	39
4.2.4	R_6 Open-Circuited.....	39
4.2.5	Failure of the Relay.....	39
4.2.6	Shorted Diode.....	39

CHAPTER 5 - CONCLUSIONS AND SUGGESTIONS

5.1	Conclusions.....	41
5.2	Suggestions.....	42

APPENDICES

APPENDIX 1 - References

APPENDIX 2 - Data Sheet

APPENDIX 3 - Components List