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FINAL REPORT OF DIPLOMA PROJECT

PHOTOELECTRIC COUNTER

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ABSTRACT

In today's world, the term digital has become part of our everyday vocabulary because of the dramatic way that digital circuit and digital techniques have become so widely used in almost all areas of life. In our project paper is basically design of one many project that used in today. It's about the 'Photoelectric Counter' that a working prototype be built f a photoelectric counter, for which there maybe a market. If it is determined that such a market exists, the project could be mass-produced.

There are many occasions when various objects, parts, products and even people must be counted. In a factory, as unit move past on a conveyer belt there is a need to keep a count. When people enter a room or store, it is often desirable to know how many are present at any time.

The photoelectric counter circuit described here counts up every time that the shinning of light on a photo resistor is interrupted. When the count reaches 999, the counter restarts at 000 and sends an overflow pulse. This pulse can be used to add move digit, trigger another circuit, or sound and alarm. The counter can be reset or halted at any time.

ACKNOWLEDGEMENT

With the name of ALLAH SWT the most gracious and most merciful and to our prophet Muhammad SAW and his family. Thanks to ALLAH SWT for giving our opportunity to complete this project successfully.

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MAY GOD BLESS ALL OF US, AMIN...

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CHAPTER 1

1.1 INTRODUCTION

In science and technology, business and in fact most other fields of endeavor. We are constantly dealing with quantities. Quantities are measured, monitored, recorded, manipulated arithmetically, observed, or in some other way utilized in most physical systems. It is important when dealing with various quantities that we are able to represent the value efficiently and accurately. There are basically two ways to representing the numerical values of quantities analog and digital.

In our project paper, we are tried to represent the numerical values in digital system. In digital representation, the quantities are represented not by proportional quantities but by symbol called digits. Our project paper is 'Photoelectric Counter'. Its described here counts up every time that shining of light on a photo resistor is interrupted. We are class into three sections of circuitry. The section is called input transducer, where the light energy input convert into electricity. The second section is a placed that the photoelectric counter circuit counts up every time light shining on a photo resistor is interrupted. The last section is a output transducer, where that placed is consist a LED displays which converts back electricity energy into light energy. We can apply this project to our life. There are many occasions when various objects, parts, products and even people must be counted. In a factory as units more past on a conveyer belt there is need to keep a count. When people enter a room or store, it is often desirable to know how many present at any time.