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CHAPTER ONE

1.1**INTRODUCTION**

The light sensitivealarm is an electronic circuit that detects a sudden shadow falling on thelight sensor and sounds the bleeper. When this happens, the circuit willrespond to gradual charges in brightness to avoid false alarm. The beepersounds for only a short time to prevent the battery from running flat. Normallight can be use. The circuit will work best if a beam of light is made to fallon the light sensor. Breaking this beam will then cause the bleeper to sound. Thelight sensor is a light dependent resistor (LDR); this has a low resistance inbright light and a high resistance in dim light. The light sensitivity of thecircuit can be adjusted by varying the 100kiloohms (K) preset. The length ofbleep can be varied from 0.5 to 10 seconds using 1 milliohm (M) preset. usingthe 7555 low power timer ensures that the circuit draws very little current ofabout 0.5 milli-Amps except for the short time when the bleeper is sounding,this uses 7 milli-Amps. If the circuit is switch on continuously, an alkaline9V battery should last for about a month.

1.2**AIMS AND OBJECTIVES**

The project is actuallydesigned to promote high level of security in workshops, industries and home.It enhances a recorded indication of visitors and to summon staff or personnelto fulfill a service as in domestic and industrial use.

1.3**PURPOSE OF THE STUDY**

The purpose of thisstudy is to provide maximum security round the world.

1.4**SCOPE OF THE STUDY**

This project “lightsensitive alarm” is design mainly to alert the user by a bleeper when thecircuit detects a sudden shadow falling on the light sensor the bleeperduration can be controlled by varying the I ohms – preset resistor.

1.5**LIMITATION OF THE STUDY**

The limitations of thisstudy are: the bleeper sound for only a short time to prevent the battery fromrunning flat. If there is any little mistake during soldering, there will notwork well. Also by met being able to purchase some components and their exactvalue couple with transportation problems has also gone a long way to reducethe efficiency of this project.

1.6**SIGNIFICANCE OF THE PROJECT**

This project helps to provide securityin offices, hotels, homes etc. it also promotes and encourage researchesinvolving in security research projects.

CONSTRUCTION OF LIGHT SENSITIVE ALARM SYSTEM