

HIGHER TECHNICAL INSTITUTE
NICOSIA - CYPRUS

ELECTRICAL ENGINEERING DEPARTMENT

H.T.I. SECURITY
SYSTEMS

E/1270

SUBMITTED BY:
MARIO GABRIEL

PROJECT SUPERVISOR:
MR. S. HADJIOANNOU

JUNE 2001

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INTRODUCTION

The increasing crime in every country is mostly due to the intrusion of burglars in buildings, either domestic, commercial or industrial.

The intruder may be an individual who seeks valuable things and who follows more or less common procedures to enter a building.

In other cases the intrusion may be done on an organized manner with professional participation which may be able to break and by-pass many sophisticated burglar alarm systems.

The aim of intruder or burglar alarm system

The aim of intruder or burglar alarm system is to:

- Discourage the intruder to break in.
- Give an early warning alarm before the intruder gets in the building.
- Give a warning alarm when the intruder has entered the building after overcoming other alarm circuits.
- Give a warning if precious items are removed from their position.

Design and construction of intruder or burglar alarm system

The design and construction of intruder or burglar alarm system is often so complicated and so sophisticated as to ensure reliance in case of the system being overcome.

As the intruders manage to de-activate a system the manufacturers seek new approaches, which are always more and more complex.

These solutions are usually kept as top secrets of the company and so specific information is not available. Neither the technical operation of the detectors is released to everybody for obvious reasons or any other characteristic.