

SINGAPORE STANDARD

# **Guide to the selection and application of intruder alarm system**



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alarm system**

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SINGAPORE STANDARD  
GUIDE TO THE SELECTION AND APPLICATION OF  
INTRUDER ALARM SYSTEMS

FOREWORD

This standard was prepared by the Technical Committee on the Guide to the Selection and Application of Intruder Alarm Systems under the authority of the Electrical Industry Practice Committee.

In view of the range of equipment and systems that are available, this standard was prepared to assist people to obtain some idea of which type of detector equipment and alarm system is best suited for their application. This standard attempts to provide information on the major types of intruder alarm systems currently in use. However, it does not purport to be a definitive exposition of all such systems, nor is it intended to convey the impression that every system described will be suitable for use in all locations. While it attempts to discuss the main issues to be taken into account in deciding upon the installation of a particular system, it may not cover all relevant functions peculiar to a particular location. Other related physical protection, such as guards, doors, windows and types of locks, is not covered in this standard.

The standard is based on the Australian Standard, AS 2630 : 1983 – Guide to the Selection and Application of Intruder Alarm Systems for Domestic and Business Premises. Acknowledgement is given for the use of this standard.

**NOTE**

1. Singapore Standards are subject to periodical review to keep abreast of technological changes and new technical developments. The revisions of Singapore Standards are announced through the issue either of amendment slips or of revised editions.
2. Compliance with a Singapore Standard does not exempt users from legal obligations.

## 0. INTRODUCTION

Crimes against domestic premises and businesses, small and large, are a commonplace occurrence and security has therefore become an essential in the operation of any business. Greater awareness amongst the public of the need for crime prevention measure is the main reason why more and more people are turning to alarm systems for increased protection. The selection of a suitable alarm system is not a simple matter. One is faced with a wide and possibly confusing array of equipment and services which may not provide enough information for the specific needs. This standard, therefore, is intended to provide a means for one to gain a general understanding of intruder alarm systems and their potential use in the premises.

The factors which determine the requirements of an individual alarm system and the questions which must be answered when a system is being selected include the following:

- (a) The threat – what is to be protected against?
- (b) The type of protection – what methods are available?
- (c) The types of detectors – what should be detected?
- (d) The method of alarm transmission – how is the signal sent and who will respond?

The purpose of this standard is to familiarize one with:

- (a) the types of protection that intruder alarm systems can provide;
- (b) the manner in which they operate; and
- (c) the characteristics of the various system components as they relate to different applications.

The basic considerations that determine the individual needs are discussed in general terms, thus enabling one more effectively to deal with and understand the services of the many reputable alarm system companies that are ready to serve one's needs.

An intruder alarm may sometimes serve to deter a would-be intruder. However, the primary function of the system is to signal the presence of the intruder. An intruder alarm system is only part of the overall protection needed, and it is important to recognize that the successful operation of a system depends upon not only the system equipment but also upon its proper installation, maintenance and use.

## 1. SCOPE

This standard provides guidance on the selection and application of intruder alarm systems. It deals with and indicates the most appropriate type of equipment and method to be used for the three fundamental elements which are the detector, control unit and alarm.

Although this standard has been written primarily with businesses in mind, in most cases the recommendations on selection of the intruder alarm system are equally applicable to the domestic situation.