SLOVENSKI STANDARD
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Alarm systems - Part 1: General requirements - Section One: General

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Systèmes d'alarme. Première partie: Prescriptions générales. Section un: Généralités

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Alarm systems

Part 1:
General requirements
Section One – General

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

ALARM SYSTEMS

Part 1: General requirements

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FOREWORD

1) The formal decisions or agreements of the IEC on technical matters, prepared by Technical Committees on which all the National Committees having a special interest therein are represented, express, as nearly as possible, an international consensus of opinion on the subjects dealt with.

2) They have the form of recommendations for international use and they are accepted by the National Committees in that sense.

3) In order to promote international unification, the IEC expresses the wish that all National Committees should adopt the text of the IEC recommendation for their national rules in so far as national conditions will permit. Any divergence between the IEC recommendation and the corresponding national rules should, as far as possible, be clearly indicated in the latter.

PREFACE

This standard has been prepared by IEC Technical Committee No. 79: Alarm systems.

The text of this standard is based on the following documents:

Six Months' Rule	Report on Voting
79(CO)14	79(CO)18

Full information on the voting for the approval of this standard can be found in the Voting Report indicated in the above table.

ALARM SYSTEMS

Part 1: General requirements

Section One - General

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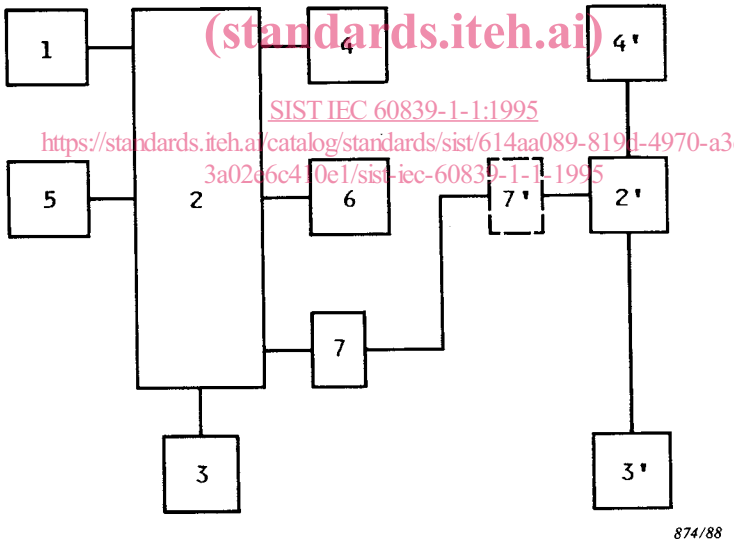
1. Scope

This standard specifies the general requirements for the design, installation, commissioning, operation, maintenance test and records of manual and automatic alarm systems employed for the protection of persons, property and the environment.

The specific requirements for particular types of alarm systems are specified in separate standards, which shall be used in conjunction with this standard. This standard does not cover remote centres.

A Code of Practice is added to this standard.



1 = detector
2 = control equipment
3 = power supply
4 = visual and/or audible indicating equipment
5 = device activated by control equipment
6 = program input device
7 = signalling interface (modem)

Fig. 1. - Common parts of different alarm systems.

2. Object

To ensure a high standard of safety, performance and reliability for alarm systems. To reduce the incidence of false alarms and to ensure compatibility of combined systems.

3. Reference documents

IEC Publications:

65 (1985): Safety requirements for mains operated electronic and related apparatus for household and similar general use.

79: Electrical apparatus for explosive gas atmospheres.

364: Electrical installations of buildings.

529 (1976): Classification of degrees of protection provided by enclosures. (First edition (1976) incorporating Amendment No. 1 (1978).)

617: Graphical symbols for diagrams.

839-1-2 (1987): Alarm systems. Part 1: General requirements. Section Two - Power units, test methods and performance criteria.

839-1-3 (1988): Section Three - Environmental testing for alarm systems.

839-2-2 (1987): Part 2: Requirements for intruder alarm systems. Section Two - Requirements for detectors - General.

4. Definitions

For the purpose of standards for alarm systems, the following definitions apply.

4.1 *Alarm*

A warning of the presence of a hazard to life, property or the environment.

4.2 *Alarm system*

An electrical installation designed to detect and signal the presence of an abnormal condition indicating the presence of a hazard.

4.3 *Alarm company*

An organization which provides and/or installs and/or maintains alarm systems.

4.4 *Subscriber*

A person or organization utilizing the services of an alarm company for the provision, installation and/or maintenance of an alarm system.

4.5 *Supervised premises*

That part of a building and/or area in which a hazard may be detected by an alarm system.

4.6 *Response authority*

The designated authority with responsibility for attending the supervised premises following an alarm and taking the appropriate action.

4.7 *Normal condition*

The condition of an alarm system when it is fully operational and is not in any other defined condition.

4.8 *Alarm condition*

A condition of an alarm system, or part thereof which results from the response of the system, to the presence of a hazard.

4.9 *Fault condition*

A condition of an alarm system which prevents the system from functioning in accordance with the requirements of the appropriate standards.

4.10 *Test condition*

A condition of an alarm system in which the normal functions are modified for test purposes.

4.11 *Disconnection condition*

A deliberately created condition of an alarm system in which part of the system is rendered inoperative.

4.12 *Alarm signal*

A signal generated by an alarm system when in an alarm condition.

4.13 *Fault signal*

A signal generated by an alarm system when in a fault condition.

4.14 *Tamper device*

A device designed to detect deliberate interference with a component or part of an alarm system.

4.15 *Tamper detection*

The application of tamper devices to detect deliberate interference with an alarm system or part thereof.

4.16 *Tamper protection*

The application of electrical or mechanical means to prevent deliberate interference with an alarm system or part thereof.

4.17 *Tamper alarm*

An alarm generated by the operation of a tamper device.

4.18 *False alarm*

An alarm signal generated in error, caused by: accidental actuation of a manual call point, response of an automatic device to conditions other than that which it is designed to detect, malfunction or failure of a component or an operator error.

4.19 *Power supply*

That part of an alarm system which provides power for the operation of the system or any part thereof.

4.20 *Detector*

A device designed to generate an alarm condition in response to the sensing of an abnormal condition indicating the presence of a hazard.

4.21 *Sensor*

That part of a detector which senses a change in condition which could indicate the presence of hazard.

4.22 *Processor*

A device which processes the output from one or more sensors to determine whether an alarm condition should be generated.

4.23 *Alarm receiving centre*

A continuously manned remote centre to which the information concerning the state of one or more alarm systems is reported.

4.24 *Remote centre*

A location, remote from the supervised premises, in which the information concerning the state of one or more alarm systems is collected either for reporting (in the case of an alarm receiving centre) or for onward transmission (in the case of a satellite station or collector point).