

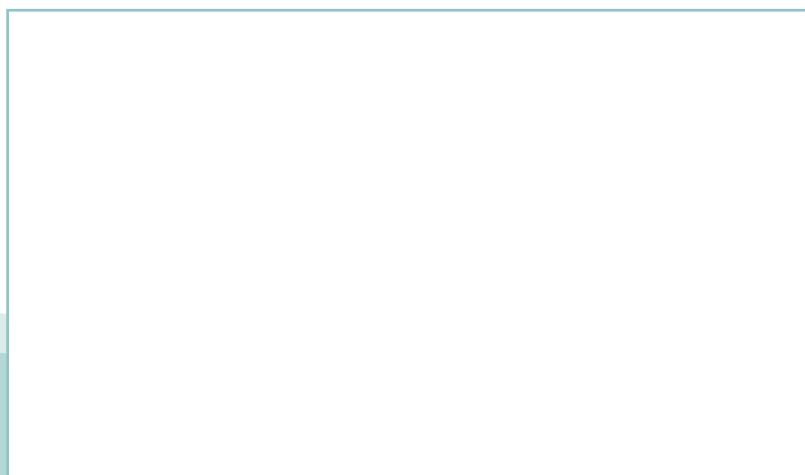
SVENSK STANDARD

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Brand och räddning – Branddetekterings- och brandlarmsystem – Del 4: Strömförsörjning till brandlarmsystem

Fire detection and fire alarm systems – Part 4: Power supply equipment



Europastandarden EN 54-4:1997/A1:2002 gäller som svensk standard. Detta dokument innehåller den officiella engelska versionen av EN 54-4:1997/A1:2002.

The European Standard EN 54-4:1997/A1:2002 has the status of a Swedish Standard. This document contains the official English version of EN 54-4:1997/A1:2002.

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Standarden är framtagen av kommittén för Branddetektorer, brandlarmsystem, SIS/TK 360/AG 2.

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 54-4:1997/A1

December 2002

ICS 13.220.20

English version

Fire detection and fire alarm systems - Part 4: Power supply equipment

Systèmes de détection et d'alarme incendie - Partie 4:
Équipement d'alimentation électrique

Brandmeldeanlagen - Teil 4:
Energieversorgungseinrichtungen

This amendment A1 modifies the European Standard EN 54-4:1997; it was approved by CEN on 23 September 2002.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for inclusion of this amendment into the relevant national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Management Centre or to any CEN member.

This amendment exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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Foreword

This document (EN 54-4:1997/A1:2002) has been prepared by Technical Committee CEN/TC 72 "Fire detection and fire alarm systems", the secretariat of which is held by BSI.

This Amendment to the European Standard EN 54-4:1997 shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 2003, and conflicting national standards shall be withdrawn at the latest by December 2005.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative Annex ZA which is an integral part of this document.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Contents

At the end of the existing table of contents, delete:

Annex A (normative) Special national condition

and insert the following new entries:

Annex ZA (informative) Clauses of this European Standard addressing essential requirements of the Construction Products or other provisions of EU Directives

Bibliography

Scope

Delete the note and replace it with the following paragraph:

This standard does not cover the power supplies for self-contained smoke alarms or the battery powered parts of wire-free fire detection and fire alarm systems.

Clause 9.3.1.1

Delete the final sentence and replace it with the following:

For other battery types, the discharge current shall be that for which the battery manufacturer specifies the rated capacity.

Annex A

Delete the whole of annex A.

New annex ZA and Bibliography

After the existing annex A, add annex ZA and bibliography as follows.

Annex ZA (informative)

Clauses of this European Standard addressing essential requirements of the Construction Products or other provisions of EU Directives

ZA.1 Scope and relevant clauses

This European Standard has been prepared under the mandate M/109 given to CEN by the European Commission and the European Free Trade Association.

The clauses of this European Standard, shown in this annex, meet the requirements of the Mandate given under the EU Construction Products Directive (89/106/EEC).

Compliance with these clauses confers a presumption of fitness of the construction product covered by this European Standard for its intended use according to clause 1 (Scope) of this standard.

WARNING: Other requirements and other EU Directives may be applicable to the product(s) falling within the scope of this standard.

NOTE 1 In addition to any specific clauses relating to dangerous substances contained in this standard, there may be other requirements applicable to the products falling within its scope (e.g. transposed European legislation and national laws, regulations and administrative provisions). These requirements need also to be complied with, when and where they apply.

NOTE 2 An informative database of European and national provisions on dangerous substances is available at the Construction web site on EUROPA (CREATE, accessed through <http://europa.eu.int/comm/enterprise/construction/internal/hygiene.htm>).

This annex ZA has the same scope, in relation to the products covered, as clause 1 of this standard. This annex establishes the conditions for the CE marking of power supply equipment intended for the use shown below and identifies the relevant clauses applicable.

Construction Product: Power supply equipment for fire detection and fire alarm systems for buildings.

Intended use: Fire Safety.

Table ZA.1 - Relevant clauses

Essential characteristics	Clauses in this European Standard	Mandated level(s)	Notes
Performance under fire condition	4, 5, 6	None	^a
Operational reliability	4, 5, 6, 7, 8, 9.3		
Durability of operational reliability, Temperature resistance	9.5, 9.6		
Durability of operational reliability Vibration resistance	9.7, 9.8, 9.15		
Durability of operational reliability Electrical stability	9.9 to 9.13		
Durability of operational reliability Humidity resistance	9.6, 9.14		
^a The products covered by this standard are assumed to operate, in an event of fire, before the fire becomes so large as to affect their functioning. There is therefore no requirement to function when exposed to direct attack from fire.			

ZA.2 Procedures for the attestation of conformity of power supply equipment covered by this standard

ZA.2.1 System of attestation of conformity

The mandate requires that the attestation of conformity system to be applied shall be that shown in Table ZA.2.

Table ZA.2 - Attestation of conformity system

Product	Intended use	Levels or classes	Attestation of conformity system
Fire detection/Fire alarm: Power supply equipment	Fire safety	None	1
System 1: See CPD Annex III.2.(i), without audit-testing of samples.			

This requires:

a) tasks to be provided by the manufacturer:

- 1) factory production control (see ZA.2.2b);
- 2) testing of samples taken at the factory by the manufacturer in accordance with a prescribed test plan;

- b) tasks to be undertaken under the authority of a Notified Product Certification Body¹:
- 1) type testing of the product;
 - 2) inspection of the factory and factory production control;
 - 3) continuous/periodic surveillance, assessment and approval of the factory production control.

ZA.2.2 Evaluation of conformity

The evaluation of conformity of power supply equipment covered by this European Standard shall be by the following:

a) Type testing

Type testing of the product shall be carried out in accordance with the clauses shown in Table ZA.1. The products tested shall be representative of the manufacturer's normal production with regard to their construction, operation and calibration. Tests previously performed in accordance with the provisions of this standard may be taken into account providing that they were made to the same system of attestation of conformity on the same product or products of similar design, construction and functionality, such that the results may be considered applicable to the product in question. Wherever a change, for example in the product design, materials or supplier of the components or of the production process occurs, which could change significantly one or more of the characteristics, the type testing shall be repeated for the relevant product performance.

b) Factory production control

The manufacturer shall establish, document and maintain a permanent factory production control system to ensure that the products placed on the market conform with the stated performance characteristics. The factory production control system shall consist of procedures, regular inspections and tests and/or assessments and the use of the results to control incoming materials or components, equipment, the production process and the product.

The production control procedure shall be adequately extensive and detailed so that the conformity of the products is made apparent to the manufacturer and so that irregularities can be detected at the earliest possible stage.

A factory production control system conforming with the requirements of EN ISO 9001, and made specific to the requirements of this standard, should be considered to satisfy the above requirements.

The production control procedure shall be recorded in a manual, which shall be made available for inspection.

The factory production control shall be recorded. These records shall be available for inspection and shall include at least the following:

- 1) identification of the product tested;
- 2) the dates of sampling;
- 3) the test methods applied;
- 4) the test and inspection results;
- 5) the date of tests;
- 6) the identification of the responsible authority within the factory;
- 7) calibration records;

¹ A Notified Product Certification Body is an approved product certification body notified to the Commission by a member state, for this purpose, in accordance with article 18 of the Construction Products Directive (89/106/EEC).