



**NSAI**  
Standards

Irish Standard  
I.S. EN 54-5:2000

# Fire detection and fire alarm systems - Part 5: Heat detectors - Point detectors

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## I.S. EN 54-5:2000

*Incorporating amendments/corrigenda issued since publication:*  
EN 54-5:2000/A1:2002

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I.S. xxx: Irish Standard – national specification based on the consensus of an expert panel and subject to public consultation.

S.R. xxx: Standard Recommendation - recommendation based on the consensus of an expert panel and subject to public consultation.

SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

*This document replaces/revises/consolidates the NSAI adoption of the document(s) indicated on the CEN/CENELEC cover/Foreword and the following National document(s):*

*NOTE: The date of any NSAI previous adoption may not match the date of its original CEN/CENELEC document.*

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Údarás um Chaighdeáin Náisiúnta na hÉireann

**I.S. EN 54-5:2000**

**EUROPEAN STANDARD**  
**NORME EUROPÉENNE**  
**EUROPÄISCHE NORM**

**EN 54-5:2000/A1**

June 2002

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ICS 13.220.20

English version

**Fire detection and fire alarm systems - Part 5: Heat detectors -  
Point detectors**

Systèmes de détection et d'alarme incendie - Partie 5:  
DéTECTEURS DE CHALEUR - DéTECTEURS PONCTUELS

Brandmeldeanlagen - Teil 5: Warmemelder - Punktförmige  
Melder

*This amendment A1 modifies the European Standard EN 54-5:2000; it was approved by CEN on 5 April 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.



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COMITÉ EUROPÉEN DE NORMALISATION  
EUROPAISCHES KOMITEE FÜR NORMUNG

**Management Centre: rue de Stassart, 36 B-1050 Brussels**

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## **Foreword**

This document EN 54-5:2000/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 54-5:2000 shall be given the status of a national standard, either by *publication of an identical text or by endorsement*, at the latest by December 2002, and conflicting national standards shall be withdrawn at the latest by June 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 the EU Construction Products Directive (89/106/EEC).

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.

**I.S. EN 54-5:2000**

**EN 54-5:2000/A1:2002 (E)**

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*At the end of the existing table of contents, insert the following new entries:*

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

**Bibliography**

**New annex ZA and Bibliography**

*After the existing annex D, add annex ZA and Bibliography as follows*

I.S. EN 54-5:2000

EUROPEAN STANDARD

EN 54-5

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2000

ICS 13.220.20

Supersedes EN 54-5:1976, EN 54-5:1976/A1:1988,  
EN 54-6:1982, EN 54-8:1982

English version

## Fire detection and fire alarm systems - Part 5: Heat detectors - Point detectors

Systèmes de détection et d'alarme incendie - Partie 5:  
DéTECTEURS DE CHALEUR - DéTECTEURS PONCTUELS

Brandmeldeanlagen - Teil 5: Wärmemelder - Punktformige  
Melder

This European Standard was approved by CEN on 2 June 2000.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a 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 European Standard 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, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.



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## Foreword

This European Standard has been prepared by Technical Committee CEN/TC 72 "Fire detection and fire alarm systems", the secretariat of which is held by BSI.

This European Standard replaces EN 54-5:1976, EN 54-5:1976/A1:1988, EN 54-6:1982, EN 54-8:1982.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 2001, and conflicting national standards shall be withdrawn at the latest by June 2003. For products which have complied with the relevant national standard before the date of withdrawal (dow), as shown by the manufacturer or by a certification body, this previous standard may continue to apply for production until June 2006.

This European Standard 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).

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, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

This standard has been prepared in cooperation with the CEA (Comité Européen des Assurances) and with EURALARM (Association of European Manufacturers of Fire and Intruder Alarm Systems).

The significant differences from EN 54-5:1976+A1:1988 include:

- changes in the title of the EN 54 series and in the title of this Part;
- the integration of the requirements for high temperature heat detectors, previously covered in EN 54-8:1982 and the partial integration of the requirements for rate of rise heat sensitive detectors without a static element, previously covered by EN 54-6:1982, into this Part;
- a new classification system, combining the systems of EN 54-5:1976 and EN 54-8:1982, together with the introduction of optional suffices giving additional information on response characteristics (N.B. this allows detectors with certain rate-of-rise characteristics to be identified, such detectors were previously covered by EN 54-6 :1982);
- changes to the lower limits of response times at high rates of rise of temperature;
- changes in the environmental test procedures to use IEC tests where possible, to harmonise with test procedures applied to other types of detectors and to include EMC immunity tests;
- the requirement for an integral alarm indication.

EN 54-5:1976, EN 54-6:1982, EN 54-8:1982 and their amendments will all be withdrawn on publication of this revision.

Information on the relationship between this European Standard and other standards of the EN 54 series is given in annex A of EN 54-1:1996.

## 1 Scope

This European Standard specifies the requirements, test methods and performance criteria for point heat detectors for use in fire detection and fire alarm systems for buildings (see EN 54-1:1996).

For other types of heat detector, or for detectors intended for use in other environments, this standard should only be used for guidance. Heat detectors with special characteristics and developed for specific risks are not covered by this standard.

## 2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

<u>ISO/IEC Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
-	-	Fire detection and fire alarm systems - Part 1: Introduction.	EN 54-1	1996
-	-	Alarm Systems - Part 4: Electromagnetic compatibility - Product family standard: Immunity requirements for components of fire, intruder and social alarm systems + A1:1998.	EN 50130-4	1995
IEC 60068-1	1988	Environmental testing - Part 1: General and guidance, + A1:1992.	EN 60068-1	1994
IEC 60068-2-1	1990	Environmental testing - Part 2: Tests - Tests A: Cold, + A1:1993, A2:1994.	EN 60068-2-1	1993
IEC 60068-2-2	1974	Basic Environmental testing procedures - Part 2: Tests - Tests B: Dry heat, + Supp. A:1976, A1:1993, A2:1994.	EN 60068-2-2	1993
IEC 60068-2-3	1969	Basic Environmental testing procedures - Part 2: Tests - Test Ca: Damp heat, steady state, + A1:1984.	HD 323.2.3 S2	1987
IEC 60068-2-6	1995	Environmental testing - Part 2: Tests - Test Fc: Vibration, sinusoidal, + Corr.:1995	EN 60068-2-6	1995
IEC 60068-2-27	1987	Basic Environmental testing procedures - Part 2: Tests - Test Ea & Guidance: Shock.	EN 60068-2-27	1993

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