



NSAI
Standards

Irish Standard
I.S. EN 54-5:2017+A1:2018

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

I.S. EN 54-5:2017+A1:2018

Incorporating amendments/corrigenda/National Annexes issued since publication:

The National Standards Authority of Ireland (NSAI) produces the following categories of formal documents:

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.

This document is based on:

EN 54-5:2017+A1:2018

Published:

2018-08-08

This document was published under the authority of the NSAI and comes into effect on:

2018-08-26

ICS number:

13.220.20

NOTE: If blank see CEN/CENELEC cover page

NSAI
1 Swift Square,
Northwood, Santry
Dublin 9

T +353 1 807 3800
F +353 1 807 3838
E standards@nsai.ie
W NSAI.ie

Sales:
T +353 1 857 6730
F +353 1 857 6729
W standards.ie

Údarás um Chaighdeáin Náisiúnta na hÉireann

National Foreword

I.S. EN 54-5:2017+A1:2018 is the adopted Irish version of the European Document EN 54-5:2017+A1:2018, Fire detection and fire alarm systems - Part 5: Heat detectors - Point heat detectors

This document does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

For relationships with other publications refer to the NSAI web store.

Compliance with this document does not of itself confer immunity from legal obligations.

In line with international standards practice the decimal point is shown as a comma (,) throughout this document.

This page is intentionally left blank

EUROPEAN STANDARD

EN 54-5:2017+A1

NORME EUROPÉENNE

EUROPÄISCHE NORM

August 2018

ICS 13.220.20

Supersedes EN 54-5:2017

English Version

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

Systèmes de détection et d'alarme incendie - Partie 5 :
DéTECTEURS de chaleur - DéTECTEURS ponCTUELS

Brandmeldeanlagen - Teil 5: Wärmemelder -
Punktförmige Melder

This European Standard was approved by CEN on 23 October 2016 and includes Amendment 1 approved by CEN on 10 April 2018.

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 CEN-CENELEC 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 CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Contents	Page
European foreword	5
1 Scope	7
2 Normative references	7
3 Terms, definitions and abbreviations.....	8
3.1 Terms and Definitions	8
3.2 Abbreviations.....	8
4 Product characteristics	8
4.1 General	8
4.1.1 Heat Response Categories	8
4.2 Operational reliability	9
4.2.1 Position of heat sensitive elements.....	9
4.2.2 Individual alarm indication	9
4.2.3 Connection of ancillary devices.....	10
4.2.4 Monitoring of detachable detectors.....	10
4.2.5 Manufacturer's adjustments.....	10
4.2.6 On-site adjustment of response behaviour	10
4.2.7 Software controlled detector (when provided).....	10
4.3 Nominal activation conditions/sensitivity.....	12
4.3.1 Directional dependence	12
4.3.2 Static response temperature	12
4.3.3 Response times from typical application temperature	12
4.3.4 Response times from 25 °C.....	12
4.3.5 Response times from high ambient temperature	12
4.3.6 Reproducibility.....	12
4.4 Response delay (response time)	13
4.4.1 Additional tests for suffix S detectors	13
4.4.2 Additional tests for suffix R detectors.....	13
4.5 Tolerance to supply voltage - Variation in supply parameters.....	13
4.6 Durability of Nominal activation conditions/sensitivity	13
4.6.1 Temperature resistance.....	13
4.6.2 Humidity resistance.....	13
4.6.3 Corrosion resistance: Sulphur dioxide (SO ₂) corrosion (endurance)	14
4.6.4 Vibration resistance	14
4.6.5 Electrical stability: Electromagnetic Compatibility (EMC), Immunity tests (operational)	14
5 Testing, assessment and sampling methods.....	14
5.1 General	14
5.1.1 Atmospheric conditions for tests.....	14
5.1.2 Operating conditions for tests	15
5.1.3 Mounting arrangements.....	15
5.1.4 Tolerances.....	15
5.1.5 Measurement of response time	15
5.1.6 Provision for tests	16
5.1.7 Test schedule.....	16

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- [Looking for additional Standards? Visit Intertek Inform Infostore](#)
 - [Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation](#)
-