Australian Standard®

Automatic fire detection and alarm systems

Part 1: Heat detectors

This Australian Standard was prepared by Committee FP/2, Fire Detection, Warning, Control and Intercom Systems. It was approved on behalf of the Council of Standards Australia on 15 November 1996 and published on 5 January 1997.

The following interests are represented on Committee FP/2:

Audio Engineering Society

Australian Building Codes Board

Australian Chamber of Commerce and Industry

Australian Chamber of Manufactures

Australian Electrical and Electronic Manufacturers Association

Australian Fire Authorities Council

Australian Fire Protection Association

CSIRO—Division of Building, Construction and Engineering

Commonwealth Fire Board

Deafness Forum of Australia

Department of Defence

Fire Protection Industry Association of Australia

Fire Protection Industry Contractors Association of New Zealand

Insurance Council of Australia

National Electrical Contractors Association of Australia

New Zealand Fire Equipment Association

New Zealand Fire Protection Association

Property Council of Australia

Scientific Services Laboratory AGAL—Department of Administrative Affairs

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee FP/2 on Fire Detection, Warning, Control and Intercom Systems, to supersede AS 1603.1—1990, *Automatic fire detectors and alarm systems*, Part 1: *Heat detectors*, and is the result of a consensus among the representatives on the Joint Committee that it be produced as an Australian Standard.

The various components of automatic fire detection and alarm systems are being specified in the AS 1603 series of Standards.

Specifications for the design, installation and maintenance of equipment for fire detection and alarm systems and the testing of actuating devices are given in the following Standards:

AS

1670 Automatic fire detection and alarm systems—System design, installation and commissioning

1851 Maintenance of fire protection equipment

1851.8 Part 8: Automatic fire detection and alarm systems

2362 Automatic fire detection and alarm systems—Methods of test for actuating devices

The objective of this Standard is to provide designers and manufacturers of detectors and alarm systems with requirements for the design, construction and performance of heat detectors.

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Originated as part of AS A122—1961.
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STANDARDS AUSTRALIA

Australian Standard

Automatic fire detection and alarm systems

Part 1: Heat detectors

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE This Standard specifies requirements for the design, construction and performance of heat detectors as used in automatic fire detection and alarm systems.

1.2 APPLICATION This Standard applies to heat detectors intended for installation in accordance with AS 1670, connected to compatible control and indicating equipment (CIE).

1.3 CLASSIFICATION Heat detectors shall be classified as follows:

(a) Type A—normal temperature duty, incorporating both fixed temperature and rate-of-rise actuation, resetting or non-resetting.

(b) Type B—normal temperature duty, fixed temperature actuation only, resetting or non-resetting.

(c) Type C—high temperature duty, incorporating both fixed temperature and rate-of-rise actuation, resetting or non-resetting.

(d) Type D—high temperature duty, fixed temperature actuation only, resetting or non-resetting.

(e) Type E—special purpose fixed temperature, where Types A to D are not suitable.

1.4 REFERENCED DOCUMENTS The following documents are referred to in this Standard:

AS

1670 Automatic fire detection and alarm systems—System design, installation and commissioning

1939 Degrees of protection provided by enclosures for electrical equipment (IP Code)

2362 Automatic fire detection and alarm systems—Methods of test for actuating devices

2362.1 Method 1: Heat sensitivity testing of types A, B, C and D heat detectors
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