

BS 5839 | Fire Detection & Alarm Regulation for Buildings

BS 5839, for fire detection systems and regulation for alarm systems within buildings:

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Fire detection and fire alarm systems for buildings – (Not Dwellings)

Part 1: Code of practice for system design, installation, commissioning and maintenance.

Section 1.

General

Scope

Normative references

Terms and definitions

Need for a fire alarm system

Categories of systems

Exchange of information and definition of responsibilities

Variations from recommendations of this standard

Section 2.

Design considerations

Relationship between system Category and areas protected

Actuation of other fire protection systems or safety facilities

Systems in explosive gas or dust atmosphere

System components

Monitoring, integrity and reliability of circuits external to control equipment

Detection zones

Alarm zones

Communication with the fire service

Audible alarm signals

Visual alarm signals

Fire alarm warnings for people with impaired hearing

Staged fire alarms

Manual call points

Types of fire detector and their selection

Spacing and siting of automatic fire detectors

Control and indicating equipment

Networked systems

Power supplies

Cables, wiring and other interconnections

Radio-linked systems

Electromagnetic compatibility

Electrical safety (BS 7671)

Section 3.

Limitation of false alarms

Responsibility for limitation of false alarms

Categories of false alarms

Acceptable rate of false alarms

Causes of false alarms

Design process for limitation of false alarms

Measures to limit false alarms

Section 4.

Installation

Responsibility of installer

Installation practices and workmanship

Inspection and testing of wiring

Section 5.

Commissioning and handover

Commissioning

Documentation

Certification

Acceptance

Verification

Section 6.

Maintenance

Routine testing

Inspection and servicing

Non-routine attention

Section 7.

Users responsibilities

Responsible person

Log book

BS 5839-3:2003 Fire detection and fire alarm systems for buildings –
Part 3: Specification for automatic release mechanisms for certain fire protection equipment.

BS 5839-5:1988 Fire detection and fire alarm systems for buildings –
Part 5: Specification for optical beam smoke detectors.

BS 5839-6:2004 Fire detection and fire alarm systems for buildings – (Dwellings)
Part 6: Code of practice for system design, installation, commissioning and maintenance of fire detection and fire alarm systems in dwellings

Scope	Power supplies
Normative references	Wiring
Terms and definitions	Control and indicating equipment
Fire risk assessment	Manual call points
System components	Zoning and other means for identification of source of alarm conditions
Monitoring of circuits	Remote transmission of alarm signals
Grades of systems	Radio-linked systems
Categories of systems	Electromagnetic compatibility
Choice of system	Installation, commissioning and certification
Types of fire detector and their selection	User instructions
Location and siting of fire detectors	Routine testing
Limitation of false alarms	Maintenance
Audible fire alarm devices and audibility	
Fire alarm warnings for deaf and hard of hearing people	

BS 5839-8:1998 Fire detection and fire alarm systems for buildings –
Part 8: Code of practice for the design, installation and servicing of voice alarm systems

BS 5839-9:2003 Fire detection and fire alarm systems for buildings –
Part 9: Code of practice for the design, installation, commissioning and maintenance of emergency voice communication systems

Scope	Cables, wiring and other interconnections
Normative references	Environmental conditions
Terms and definitions	Variations in power supply
Need for an emergency voice communication system	Electromagnetic compatibility
Exchange of information and definition of responsibilities	Responsibility of installer
Variations from the recommendations of this standard	Installation practices and workmanship
Purpose	Testing of wiring
System circuitry and software	Commissioning
Audio and data signal paths	Documentation
Fault monitoring and indication	Certification
Outstations	Training
Master station	Routine testing
Power supplies	Inspection and servicing
	Responsible person