BS EN 50131-1:2006+A3:2020
Incorporating corrigendum January 2018

BSI Standards Publication

Alarm systems — Intrusion and hold-up systems

Part 1: System requirements

bsi.

National foreword

This British Standard is the UK implementation of EN 50131-1:2006+A3:2020. It supersedes BS EN 50131-1:2006+A2:2017, which is withdrawn.

The start and finish of text introduced or altered by amendment is indicated in the text by tags. Tags indicating changes to CENELEC text carry the number of the CENELEC amendment. For example, text altered by CENELEC amendment A1 is indicated by A1 A1.

The UK participation in its preparation was entrusted to Technical Committee GW/1/2, Installed alarm systems.

A list of organizations represented on this committee can be obtained on request to its secretary.

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

Published by BSI Standards Limited 2020

ISBN 978 0 539 04185 9

ICS 13.310

Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 30 November 2006.

Amendments/corrigenda issued since publication

Date	Text affected
31 August 2009	Implementation of CENELEC amendment A1:2009
31 July 2017	Implementation of CENELEC amendment A2:2017
31 January 2018	Table cross-references corrected
30 June 2020	Implementation of CENELEC amendment A3:2020

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 50131-1:2006+A3

June 2020

ICS 13.310

English version

Alarm systems - Intrusion and hold-up systems Part 1: System requirements

Systèmes d'alarme - Systèmes d'alarme contre l'intrusion et les hold-up Partie 1: Exigences système

Alarmanlagen - Einbruch- und Überfallenmeldeanlagen Teil 1: Systemanforderungen

This European Standard was approved by CENELEC on 2006-04-04. CENELEC 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 Central Secretariat or to any CENELEC 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 CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Ref. No. EN 50131-1:2006 E

European foreword

This European Standard was prepared by the Technical Committee CENELEC TC 79, Alarm systems.

The text of the draft was submitted to the formal vote and was approved by CENELEC as EN 50131-1 on 2006-04-04.

This European Standard supersede EN 50131-1:1997.

The following dates were fixed

– latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2007-05-01
– latest date by which the national standards conflicting with the EN have to be withdrawn	(dow)	2009-05-01

This standard is part of the EN 50131 series of European Standards and Technical Specifications “Alarm systems - Intrusion and hold-up systems”, written to include the following parts:

Part 1	System requirements
Part 2-2	Requirements for passive infrared detectors
Part 2-3	Requirements for microwave detectors
Part 2-4	Requirements for combined passive infrared and microwave detectors
Part 2-5	Requirements for combined passive infrared and ultrasonic detectors
Part 2-6	Requirements for opening contacts (magnetic)
Part 2-7 [1)]	Intrusion detectors - Glass break detectors
Part 3	Control and indicating equipment
Part 4	Warning devices
Part 5-3	Requirements for interconnections equipment using radio frequency techniques
Part 6	Power supplies
Part 7	Application guidelines
Part 8 [1)]	Security fog devices

Foreword to amendment A1

This amendment to EN 50131-1:2006 was prepared by the Technical Committee CENELEC TC 79, Alarm systems.

The text of the draft was submitted to the Unique Acceptance Procedure and was approved by CENELEC as amendment A1 to EN 50131-1:2006 on 2009-05-01.

The following dates were fixed:

– latest date by which the amendment has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2010-05-01
– latest date by which the national standards conflicting with the amendment have to be withdrawn	(dow)	2012-05-01

[1)] At draft stage.

Foreword to amendment A2

This document (EN 50131-1:2006/A2:2016) has been prepared by CLC/TC 79, "Alarm systems".

The following dates are fixed:

- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2018-02-20
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2020-02-20

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

———————

Foreword to amendment A3

This document (EN 50131-1:2006/A3:2020) has been prepared by CLC/TC 79 "Alarm systems".

The following dates are fixed:

- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2021-05-11
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2023-05-11

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

Contents

Introduction

This European Standard applies to Intrusion and Hold-up Alarm Systems. The standard is also intended to apply to Intruder Alarm Systems which include only intrusion detectors and to Hold-up Alarm Systems which include only hold-up devices.

This European Standard is a specification for Intrusion and Hold-up Alarm Systems (I&HAS) installed in buildings, it includes four security grades and four environmental classes.

The purpose of an I&HAS is to enhance the security of the supervised premises. To maximise its effectiveness an I&HAS should be integrated with appropriate physical security devices and procedures. This is particularly important to higher grade I&HAS.

This standard is intended to assist insurers, intruder alarm companies, customers and the police in achieving a complete and accurate specification of the supervision required in particular premises, but it does not specify the type of technology, the extent or degree of detection, nor does it necessarily cover all of the requirements for a particular installation.

All references to the requirements for I&HAS refer to basic minimum requirements and the designers of such installed I&HAS should take into account the nature of the premises, the value of the contents, the degree of risk of intrusion, the threat to personnel and any other factors which may influence the choice of grade and content of an I&HAS.

Recommendations for design, planning, operation, installation and maintenance are given in Application Guidelines CLC/TS 50131-7.

This standard is not intended to be used for testing individual I&HAS components. Requirements for testing individual I&HAS components are given in the relevant component standards.

I&HAS and components thereof are graded to provide the level of security required. The security grades take into account the risk level which depends on the type of premises, the value of the contents, and the typical intruder or robber expected.

1 Scope

This European Standard specifies the requirements for Intrusion and Hold-up Alarm Systems installed in buildings using specific or non-specific wired interconnections or wire-free interconnections. These requirements also apply to the components of an I&HAS installed in a building which are normally mounted on the external structure of a building e.g. ancillary control equipment or warning devices. The standard does not include requirements for exterior I&HAS.

This standard specifies performance requirements for installed I&HAS but does not include requirements for design, planning, installation, operation or maintenance.

These requirements also apply to I&HAS sharing means of detection, triggering, interconnection, control, communication and power supplies with other applications. The [A1] functioning [A1] of an I&HAS shall not be adversely influenced by other applications.

Requirements are specified for I&HAS components where the relevant environment is classified. This classification describes the environment in which an I&HAS component may be expected to [A1] function [A1] as designed. When the requirements of the four environmental classes are inadequate, due to the extreme conditions experienced in certain geographic locations, special national conditions are given in Annex A. General environmental requirements for I&HAS components are described in Clause 7.

The requirements of this European Standard also apply to IAS and HAS when these systems are installed independently.

When an I&HAS does not include functions relating to the detection of intruders, the requirements relating to intrusion detection do not apply.

When an I&HAS does not include functions relating to hold-up, the requirements relating to hold-up do not apply.

NOTE Unless otherwise stated the abbreviation I&HAS is intended to also mean IAS and HAS.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

[A2] Text deleted [A2]

[A2]	EN 50130-5	-	Alarm systems – Part 5: Environmental test methods
	EN 50131-6	-	Alarm systems – Intrusion and hold-up systems – Part 6: Power supplies [A2]
[A3]	CLC/TS 50131-12	2016	*Alarm systems — Intrusion and hold-up systems — Part 12: Methods and requirements for setting and unsetting of Intruder Alarm Systems (IAS)* [A3]
[A2]	EN 50136-1	2012[1]	Alarm systems – Alarm transmission systems and equipment – Part 1: General requirements for alarm transmission systems [A2]

[A3] Text deleted [A3]

[A2] Text deleted [A2]

[1] As impacted by EN 50136-1:2012/A1:2018