Alarm systems - Intrusion and hold-up systems - Part 3: Control and indicating equipment

EESTI STANDARDIKESKUS
ESTONIAN CENTRE FOR STANDARDISATION

EESTI STANDARDI EESSÕNA **NATIONAL FOREWORD**

Käesolev Eesti standard EVS-EN 50131-3:2009 sisaldab Euroopa standardi EN 50131-3:2009 ingliskeelset teksti.	This Estonian standard EVS-EN 50131-3:2009 consists of the English text of the European standard EN 50131-3:2009.
Standard on kinnitatud Eesti Standardikeskuse 30.04.2009 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.	This standard is ratified with the order of Estonian Centre for Standardisation dated 30.04.2009 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.
Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 20.03.2009.	Date of Availability of the European standard text 20.03.2009.
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Alarm systems - Intrusion and hold-up systems - Part 3: Control and indicating equipment

Systèmes d'alarme - Systèmes d'alarme contre l'intrusion et les hold-up - Partie 3: Equipement de contrôle et de signalisation

Alarmanlagen - Einbruch- und Überfallmeldeanlagen - Teil 3: Melderzentrale

This European Standard was approved by CENELEC on 2009-02-01. 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.

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CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
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Foreword

This European Standard 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 EN 50131-3 on 2009-02-01.

This European Standard supersedes CLC/TS 50131-3:2003.

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)	2010-02-01
– latest date by which the national standards conflicting with the EN have to be withdrawn	(dow)	2012-02-01

EN 50131 will consist of the following parts, under the general title *"Alarm systems – Intrusion and hold-up systems"*:

Part 1	System requirements
Part 2-2	Intrusion detectors - 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	Opening contacts (magnetic)
Part 2-7-1	Intrusion detectors – Glass break detectors (acoustic)
Part 2-7-2	Intrusion detectors – Glass break detectors (passive)
Part 2-7-3	Intrusion detectors – Glass break detectors (active)
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	Security fog device/systems

Introduction

This document is based on the revision of the Technical Specification originally edited by the CENELEC TC 79/WG 3, then submitted to the formal vote and finally approved by CENELEC as CLC/TS 50131-3 on 2003-05-19.

The work done by WG 3 is the result of the comments raised by the National Committees, members of CENELEC and of harmonisation with EN 50131-1:2006 + A1:2009 prepared by TC 79/WG 1; for this reason the reader has to take into account EN 50131-1:2006 + A1:2009, which has to be considered as a “master” document for this EN 50131-3.

Repetition of definitions and requirements contained in EN 50131-1 have been eliminated from this EN 50131-3, in order to minimise conflict in the event of changes to EN 50131-1, except where repetition is deemed essential for the clarity of this document.

Reference has been included to various implications arising from the detector standards. Full detail of the interconnection requirements could be the subject of a future standard.

A number of requirements are contained in this standard for which a formal test procedure can only be written by defining (and hence restricting) the technology by which the requirement is achieved. Accordingly, it has been recognised that such functions can be tested only by agreement between manufacturer and test house, according to documented information relating to how the required functionality has been achieved.

A table to cross reference EN 50131-1 requirements against this EN 50131-3 and tests has been included in Annex D.

Contents

1 Scope

This standard specifies the requirements, performance criteria and testing procedures for control and indicating equipment (CIE) intended for use in intrusion and hold-up alarm systems (I&HAS) installed in buildings. This document also applies to CIE to be used in IAS or HAS.

The CIE may incorporate processing functions of other I&HAS components or its processing requirements may be distributed among such components.

This standard specifies the requirements for CIE installed in buildings using specific or non-specific wired interconnections or wire-free interconnections. These requirements also apply to ACE that are installed inside or outside of the supervised premises and mounted in indoor or outdoor environments.

Where CIE shares means of detection, interconnection, control, communication, processing and/or power supplies with other applications, these requirements apply to I&HAS functions only.

This standard specifies performance requirements for CIE at each of the four security grades identified in the European Standard EN 50131-1, *"Alarm Systems – Intrusion and hold-up systems – System requirements"*. Requirements are also specified for four environmental classes covering applications for indoor and outdoor locations.

This standard includes mandatory functions, which shall be provided on all CIE for the appropriate security grade, as well as optional functions that may additionally be provided.

This standard does not deal with requirements for compliance with EU regulatory Directives, such as the EMC Directive, Low Voltage Directive, etc. except in that it specifies the equipment operating conditions for EMC susceptibility testing as required by EN 50130-4.

NOTE In this standard reference to the term "I&HAS" is used throughout, except where there is specific need to differentiate between the IAS and HAS portions of a system. The term is intended to include IAS and HAS when such systems are installed separately.

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.

Publication	Year	Title
EN 50130-4	1995	Alarm systems - Part 4: Electromagnetic compatibility - Product family standard: Immunity requirements for components of fire, intruder and social alarm systems
EN 50130-5	1998	Alarm systems - Part 5: Environmental test methods
EN 50131-1 A1	2006 2009	Alarm systems - Intrusion and hold-up systems - Part 1: System requirements
EN 50131-5-3	2005	Alarm systems - Intrusion systems - Part 5-3: Requirements for interconnections equipment using radio frequency techniques
EN 50131-6	2008	Alarm systems - Intrusion and hold-up systems - Part 6: Power supplies
EN 60068-1	1994	Environmental testing - Part 1: General and guidance (IEC 60068-1:1988 + corr. Oct. 1988 + A1:1992)
EN 60068-2-75	1997	Environmental testing - Part 2-75: Tests - Test Eh: Hammer tests (IEC 60068-2-75:1997)
EN 60529		Degrees of protection provided by enclosures (IP code) (IEC 60529)
EN 62262		Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code) (IEC 62262)