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Standards

Irish Standard  
I.S. EN 50131-3:2009

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

## I.S. EN 50131-3:2009

*Incorporating amendments/corrigenda issued since publication:*

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**EN 50131-3**

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English version

**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.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, 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: avenue Marnix 17, B - 1000 Brussels**

**I.S. EN 50131-3:2009**

EN 50131-3:2009

– 2 –

**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

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## **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

<b>Introduction</b>	<b>3</b>
<b>1 Scope</b>	<b>6</b>
<b>2 Normative references</b>	<b>7</b>
<b>3 Definitions and abbreviations</b>	<b>7</b>
3.1 Definitions	7
3.2 Abbreviations	10
<b>4 Equipment attributes</b>	<b>10</b>
4.1 General	10
4.2 Functionality	11
<b>5 CIE construction</b>	<b>11</b>
<b>6 Security grade</b>	<b>11</b>
<b>7 Environmental performance</b>	<b>11</b>
7.1 Requirements	11
7.2 Environmental and EMC tests	11
<b>8 Functional requirements</b>	<b>12</b>
8.1 Inputs	12
8.2 Outputs	13
8.3 Operation	13
8.4 Processing	18
8.5 Indication	19
8.6 Notification outputs	20
8.7 Tamper security (detection/protection)	21
8.8 Interconnections	23
8.9 Timing	24
8.10 Event recording	24
8.11 Power supply	25
<b>9 Product documentation</b>	<b>25</b>
9.1 Installation and maintenance	25
9.2 Operating instructions	26
<b>10 Marking and labelling</b>	<b>26</b>
<b>11 Tests</b>	<b>26</b>
11.1 Test conditions	27
11.2 Test procedures	28
11.3 Reduced functional test	28
11.4 Functional tests	29
11.5 Access level	40
11.6 Authorization requirements	41
11.7 Operational tests	46
11.8 Tamper security tests	56
11.9 Substitution tests	59
11.10 Testing of I&HAS timing performance	59
11.11 Testing for interconnections	60
11.12 Event log	61
11.13 Marking and documentation	62
11.14 Environmental and EMC tests	63
<b>Annex A (informative) Interconnection types</b>	<b>65</b>
<b>Annex B (informative) Summary of timing requirements</b>	<b>67</b>
<b>Annex C (normative) Use of non-I&amp;HAS interface</b>	<b>68</b>

**Annex D (informative) Summary of function cross references.....69****Figures**

Figure A.1 – Specific wired interconnections .....65

Figure A.2 – Non-specific wired interconnections .....65

Figure A.3 – Wire-free interconnections .....66

**Tables**

Table 1 – Recognition of additional fault conditions .....12

Table 2 – Recognition of biometric keys .....15

Table 3 – Time intervals for methods of authorization used in combination .....15

Table 4 – Detection of repeated invalid authorization attempts .....16

Table 5 – Monitoring of processing .....19

Table 6 – Indications supplementary to those of EN 50131-1 .....20

Table 7 – Tamper protection .....22

Table 8 – Tamper detection.....22

Table 9 – Tool dimension for tamper detection .....23

Table 10 – Removal from mounting .....23

Table 11 – Additional events to be included in event log .....24

Table 12 – Reduced functional test.....29

Table 13 – Tests of the processing of intruder signals or messages .....30

Table 14 – Tests of the processing of hold-up signals or messages .....32

Table 15 – Tests of the processing of tamper signal or messages .....33

Table 16 – Test of processing of fault signals or messages .....35

Table 17 – Test of processing of masking signals or messages.....37

Table 18 – Test of processing of reduction of range signals or messages .....38

Table 19 – Test of CIE processing in the presence of non-I&amp;HAS inputs .....40

Table 20 – Test of the access to the functions and controls .....41

Table 21 – Test for disabling user input device by invalid keys .....45

Table 22 – Test for generation of tamper by invalid keys .....46

Table 23 – Test of setting procedure.....47

Table 24 – Test of prevention of setting and overriding of prevention of setting procedure .....48

Table 25 – Test for unsetting procedure .....50

Table 26 – Test of setting and/or unsetting automatically at pre-determined times.....52

Table 27 – Inhibit and isolate functions .....53

Table 28 – Verification of test functions .....54

Table 29 – Test of CIE process monitoring .....55

Table 30 – Test of availability of indications.....56

Table 31 – Test of event log .....62

Table 32 – Environmental and EMC tests.....64

Table B.1 – Timing table.....67

Table C.1 – Conditions for use of non-I&amp;HAS interface for control and indicating purposes .....68

Table D.1 – Cross references.....69

**Bibliography.....73**

## **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.



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