Irish Standard
I.S. EN 50130-4:2011&A1:2014

Alarm systems -- Part 4: Electromagnetic compatibility - Product family standard: Immunity requirements for components of fire, intruder, hold up, CCTV, access control and social alarm systems

I.S. EN 50130-4:2011&A1:2014

Incorporating amendments/corrigenda/National Annexes issued since publication:

EN 50130-4:2011/A1:2014

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This document replaces/revises/consolidates the NSAI adoption of the document(s) indicated on the CEN/CENELEC cover/Foreword and the following National document(s):

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This document is based on:	*Published:*
EN 50130-4:2011	2011-06-17

This document was published under the authority of the NSAI and comes into effect on:	ICS number:
2014-11-14	13.320 29.020 NOTE: If blank see CEN/CENELEC cover page

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Údarás um Chaighdeáin Náisiúnta na hÉireann

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 50130-4:2011/A1

October 2014

ICS 13.320; 29.020

English Version

Alarm systems - Part 4: Electromagnetic compatibility - Product family standard: Immunity requirements for components of fire, intruder, hold up, CCTV, access control and social alarm systems

Systèmes d'alarme - Partie 4: Compatibilité électromagnétique - Norme de famille de produits: Exigences relatives à l'immunité des composants des systèmes d'alarme de détection d'incendie, contre l'intrusion, contre les hold-up, CCTV, de contrôle d'accès et d'alarme sociale

Alarmanlagen - Teil 4: Elektromagnetische Verträglichkeit - Produktfamiliennorm: Anforderungen an die Störfestigkeit von Anlageteilen für Brandmeldeanlagen, Einbruch- und Überfallmeldeanlagen, Video-Überwachungsanlagen, Zutrittskontrollanlagen sowie Personen-Hilferufanlagen

This amendment A1 modifies the European Standard EN 50130-4:2011; it was approved by CENELEC on 2014-08-11. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment the status of a national standard without any alteration.

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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

Ref. No. EN 50130-4:2011/A1:2014 E

Foreword

This document (EN 50130-4:2011/A1 2014) 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)	2015-08-11
• latest date by which the national standards conflicting with this document have to be withdrawn	(dow)	2017-08-11

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.

This document has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 50130-4

June 2011

ICS 13.320; 29.020

Supersedes EN 50130-4:1995 + A1:1998 + A2:2003 + corr. Mar.2003

English version

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This European Standard was approved by CENELEC on 2011-06-13. 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.

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CENELEC

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

Management Centre: Avenue Marnix 17, B - 1000 Brussels

Ref. No. EN 50130-4:2011 E

Foreword

This European Standard was prepared by the Technical Committee CENELEC TC 79, Alarm systems, in cooperation with CEN Technical Committee TC 72, Fire detection and fire alarm systems.

The text of the draft was submitted to the formal vote and was approved by CENELEC as EN 50130-4 on 2011-06-13.

This document supersedes EN 50130-4:1995 + A1:1998 + A2:2003 + corrigendum March 2003.

The main changes with respect to EN 50130-4:1995 are listed below:

1) referenced based standards were updated to the latest versions;

2) significant changes were made to the test methods and/or requirements for Clauses 8, 9, 10, 11 and to a lesser degree Clause 13;

3) the title was corrected to match the scope of the document.

This revision was prepared to bring the procedures up to date with current technical developments, taking account of changes in the basic standards and the experience gained in the use of the standard.

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)	2012-06-13
– latest date by which the national standards conflicting with the EN have to be withdrawn	(dow)	2014-06-13

This European Standard is part of the EN 50130 series of standards. This series is intended to give the requirements applicable to alarm systems in general (e.g. the EMC immunity requirements, in this case). The following associated series of European standards are intended to give the other requirements (e.g. performance requirements), which are applicable to the specific types of alarm systems:

– EN 50131 Alarm systems – Intrusion and hold-up systems;

– EN 50132 Alarm systems – CCTV surveillance systems for use in security applications;

– EN 50133 Alarm systems – Access control systems for use in security applications;

– EN 50134 Alarm systems – Social alarm systems;

– EN 50136 Alarm systems – Alarm transmission systems and equipment;

– CLC/TS 50398 Alarm systems – Combined and integrated alarm systems – General requirements;

– EN 54 Fire detection and fire alarm systems.

This European Standard has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association and covers essential requirements of EC Directive 2004/108/EC. See Annex ZZ.

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1 Scope

This EMC product-family standard, for immunity requirements, applies to the components of the following alarm systems, intended for use in and around buildings in residential, commercial, light industrial and industrial environments:

– access control systems, for security applications;

– alarm transmission systems [1)];

– CCTV systems, for security applications;

– fire detection and fire alarm systems;

– hold-up alarm systems;

– intruder alarm systems;

– social alarm systems;

The tests and severities to be used are the same for indoor and outdoor applications of fixed, movable and portable equipment.

The levels do not cover extreme cases, which may occur in any location, but with an extremely low probability of occurrence, or in special locations close to powerful emitters (e.g. radar transmitters).

Equipment within the scope of this standard should be designed in order to operate satisfactorily in the environmental electromagnetic conditions of residential, commercial, light industrial and industrial environments. This implies particularly that it should be able to operate correctly within the conditions fixed by the electromagnetic compatibility levels for the various disturbances on the low voltage public supply system as defined by EN 61000-2-2. The immunity tests in this standard only concern the most critical disturbance phenomena.

For equipment using radio signalling, mains signalling or with connections to the public telephone system, additional requirements, from other standards specific to these signalling media, might apply.

This standard does not specify basic safety requirements, such as protection against electrical shocks, unsafe operation, insulation coordination and related dielectric tests.

This standard does not cover EMC emission requirements. These are covered by other appropriate standards.

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1) Apart from equipment which is part of a public communication network.