



**SLOVENSKI STANDARD**  
**oSIST prEN 50130-4:2026**  
**01-julij-2026**

---

**Alarmni sistemi - 4. del: Elektromagnetna združljivost - Zahteve za odpornost**

Alarm systems - Part 4: Electromagnetic compatibility - Immunity requirements

Alarmanlagen - Teil 4: Elektromagnetische Verträglichkeit - Anforderungen an die Störfestigkeit

Systèmes d'alarme - Partie 4: Compatibilité électromagnétique - Exigences relatives à l'immunité

**Ta slovenski standard je istoveten z: prEN 50130-4:2026**

**ICS:**

13.320	Alarmni in opozorilni sistemi	Alarm and warning systems
33.100.20	Imunost	Immunity

**oSIST prEN 50130-4:2026**

**en**

# Sample Document

get full document from [standards.iteh.ai](https://standards.iteh.ai)

EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**DRAFT**  
**prEN 50130-4**

May 2026

ICS 13.320; 29.020

Will supersede EN 50130-4:2011; EN 50130-4:2011/A1:2014

English Version

## Alarm systems - Part 4: Electromagnetic compatibility - Immunity requirements

To be completed

Alarmanlagen - Teil 4: Elektromagnetische Verträglichkeit - Anforderungen an die Störfestigkeit

This draft European Standard is submitted to CENELEC members for enquiry.  
Deadline for CENELEC: 2026-08-21.

It has been drawn up by CLC/TC 79.

If this draft becomes a European Standard, 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.

This draft European Standard was established by CENELEC 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 CEN-CENELEC Management Centre has the same status as the official versions.

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

Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

Warning : This document is not a European Standard. It is distributed for review and comments. It is subject to change without notice and shall not be referred to as a European Standard.



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

**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

© 2026 CENELEC All rights of exploitation in any form and by any means reserved worldwide for CENELEC Members.

Project: 81881

Ref. No. prEN 50130-4:2026 E

<b>Contents</b>	<b>Page</b>
European foreword.....	3
<b>1</b> <b>Scope</b> .....	<b>5</b>
<b>2</b> <b>Normative references</b> .....	<b>5</b>
<b>3</b> <b>Terms, definitions and abbreviations</b> .....	<b>6</b>
<b>3.1</b> <b>Terms and definitions</b> .....	<b>6</b>
<b>3.2</b> <b>Abbreviations</b> .....	<b>7</b>
<b>4</b> <b>Applicability</b> .....	<b>7</b>
<b>5</b> <b>Conditions during testing</b> .....	<b>8</b>
<b>5.1</b> <b>Configuration</b> .....	<b>8</b>
<b>5.2</b> <b>Environmental conditions</b> .....	<b>8</b>
<b>5.3</b> <b>General performance criteria</b> .....	<b>9</b>
<b>5.3.1</b> <b>Introduction</b> .....	<b>9</b>
<b>5.3.2</b> <b>Performance criteria for continuous phenomena</b> .....	<b>9</b>
<b>5.3.3</b> <b>Performance criteria for transient phenomena</b> .....	<b>9</b>
<b>5.4</b> <b>Test report</b> .....	<b>10</b>
<b>6</b> <b>Mains supply voltage dips and short interruptions</b> .....	<b>10</b>
<b>6.1</b> <b>Test procedure</b> .....	<b>10</b>
<b>6.2</b> <b>Particular performance criteria</b> .....	<b>10</b>
<b>7</b> <b>Electrostatic discharge</b> .....	<b>11</b>
<b>7.1</b> <b>Test procedure</b> .....	<b>11</b>
<b>7.2</b> <b>Particular performance criteria</b> .....	<b>11</b>
<b>8</b> <b>Radiated electromagnetic fields</b> .....	<b>11</b>
<b>9</b> <b>Conducted disturbances induced by electromagnetic fields</b> .....	<b>14</b>
<b>10</b> <b>Fast transient bursts</b> .....	<b>15</b>
<b>10.1</b> <b>Test procedure</b> .....	<b>15</b>
<b>10.2</b> <b>Particular performance criteria</b> .....	<b>15</b>
<b>11</b> <b>Slow high energy voltage surge</b> .....	<b>15</b>
<b>11.1</b> <b>Test procedure</b> .....	<b>15</b>
<b>11.2</b> <b>Particular performance criteria</b> .....	<b>16</b>
<b>Annex A (normative) Criteria for operation as intended</b> .....	<b>17</b>
<b>Annex B (informative) Guidance for the assessment for operation as intended</b> .....	<b>18</b>
<b>Annex ZZ (informative) Relationship between this European standard and the essential requirements of Directive 2014/30/EU [2014 OJ L96] aimed to be covered</b> .....	<b>20</b>
<b>Bibliography</b> .....	<b>21</b>

## European foreword

This document (prEN 50130-4:2026) has been prepared by CLC/TC 79 “Alarm systems”.

This document is currently submitted to the Enquiry.

The following dates are proposed:

- latest date by which the existence of this document has to be announced at national level (doa) dav + 6 months
- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) dav + 12 months
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) dav + 36 months (to be confirmed or modified when voting)

This document will supersede EN 50130-4:2011 and all of its amendments and corrigenda (if any).

prEN 50130-4:2026 includes the following significant technical changes with respect to EN 50130-4:2011<sup>1</sup>:

- a) the title was changed.
- b) referenced based standards were updated to the latest versions;
- c) changes were made to the test methods and/or requirements for Clauses 8 and 11;

Equipment meeting the requirements of this edition are deemed to meet the requirements of EN 50130-4:2011<sup>2</sup>.

This document has been prepared under a standardization request addressed to CENELEC by the European Commission. The Standing Committee of the EFTA States subsequently approves these requests for its Member States.

For the relationship with EU Legislation, see informative Annex ZZ, which is an integral part of this document.

The following associated series of European documents 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 50134, *Alarm systems – Social alarm systems*;
- EN 50136, *Alarm systems – Alarm transmission systems and equipment*;
- EN 54, *Fire detection and fire alarm systems*;
- EN 62676, *Video surveillance systems for use in security applications*;

<sup>1</sup> As impacted by EN 50130-4:2011/A1:2014.

<sup>2</sup> As impacted by EN 50130-4:2011/A1:2014.

**prEN 50130-4:2026 (E)**

— EN 60839-11, *Alarm and electronic security systems - Part 11: Electronic access control systems.*

# Sample Document

get full document from [standards.iteh.ai](https://standards.iteh.ai)

## 1 Scope

This document specifies immunity requirements for electromagnetic compatibility (EMC). It applies to components of the following safety and security systems intended for use in residential, commercial, light industrial and industrial environments:

- access control systems, for security applications;
- alarm transmission systems<sup>3</sup>;
- video surveillance systems, for security applications;
- fire detection and fire alarm systems;
- hold-up alarm systems;
- intruder alarm systems;
- social alarm systems;

The document applies to indoor and outdoor applications of fixed, movable and portable equipment.

## 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

EN 60068-1:2014, *Environmental testing - Part 1: General and guidance (IEC 60068-1:2013)*

EN IEC 61000-4-2:2025, *Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test (IEC 61000-4-2:2025)*

EN IEC 61000-4-3:2020, *Electromagnetic compatibility (EMC) - Part 4-3 : Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test (IEC 61000-4-3:2020)*

EN 61000-4-4:2012, *Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test (IEC 61000-4-4:2012)*

EN 61000-4-5:2014,<sup>4</sup> *Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test (IEC 61000-4-5:2014)*

EN IEC 61000-4-6:2023, *Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields (IEC 61000-4-6:2023)*

EN IEC 61000-4-11:2020,<sup>5</sup> *Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests for equipment with input current up to 16 A per phase (IEC 61000-4-11:2020)*

---

<sup>3</sup> Apart from equipment which is part of a public communication network.

<sup>4</sup> As impacted by EN 61000-4-5:2014/A1:2017 (IEC 61000-4-5:2014/A1:2017).

<sup>5</sup> As impacted by EN IEC 61000-4-11:2020/AC:2022-10 (IEC 61000-4-11:2020/COR2:2022).