



**SLOVENSKI STANDARD**  
**SIST EN IEC 62061:2021/A1:2024**  
**01-september-2024**

---

**Varnost strojev - Funkcijska varnost nadzornih sistemov, povezanih z varnostjo -  
Dopolnilo A1 (IEC 62061:2021/AMD1:2024)**

Amendment 1 - Safety of machinery - Functional safety of safety-related control systems  
(IEC 62061:2021/AMD1:2024)

Sicherheit von Maschinen - Funktionale Sicherheit sicherheitsbezogener  
Steuerungssysteme (IEC 62061:2021/AMD1:2024)

Amendement 1 - Sécurité des machines - Sécurité fonctionnelle des systèmes de  
commande relatifs à la sécurité (IEC 62061:2021/AMD1:2024)

**Ta slovenski standard je istoveten z: EN IEC 62061:2021/A1:2024**

[SIST EN IEC 62061:2021/A1:2024](http://standards.sist.si/standards/sist/13110/iec/62061/iec-62061-2021-a1-2024)

<http://standards.sist.si/standards/sist/13110/iec/62061/iec-62061-2021-a1-2024>

**ICS:**

13.110	Varnost strojev	Safety of machinery
25.040.40	Merjenje in krmiljenje industrijskih postopkov	Industrial process measurement and control

**SIST EN IEC 62061:2021/A1:2024**      **en,fr,de**



EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN IEC 62061:2021/A1**

June 2024

ICS 13.110; 25.040.99; 29.020

English Version

**Safety of machinery - Functional safety of safety-related control systems**  
**(IEC 62061:2021/AMD1:2024)**

Sécurité des machines - Sécurité fonctionnelle des systèmes de commande relatifs à la sécurité  
(IEC 62061:2021/AMD1:2024)

Sicherheit von Maschinen - Funktionale Sicherheit sicherheitsbezogener Steuerungssysteme  
(IEC 62061:2021/AMD1:2024)

This amendment A1 modifies the European Standard EN IEC 62061:2021; it was approved by CENELEC on 2024-03-11. 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.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This amendment 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 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.



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**

**EN IEC 62061:2021/A1:2024 (E)****European foreword**

The text of document 44/1020/FDIS, future Amendment 1 of IEC 62061, prepared by IEC/TC 44 "Safety of machinery - Electrotechnical aspects" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 62061:2021/A1:2024.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2024-12-28
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2027-06-28

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.

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.

Any feedback and questions on this document should be directed to the users' national standards body/national committee. A complete listing of these bodies can be found on the CEN and CENELEC websites.

(https://standards.iteh.ai)  
Document Preview

**Endorsement notice**

The text of the International Standard IEC 62061:2021/AMD1:2024 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

- |                   |      |  |
|-------------------|------|--|
| EC 61784-3:2021   | NOTE | Approved as EN IEC 61784-3:2021 (not modified)   |
| IEC/TS 63074:2023 | NOTE | Approved as CLC IEC/TS 63074:2024 (not modified) |
| IEC/TS 63394:2023 | NOTE | Approved as CLC IEC/TS 63394:2024 (not modified) |

## Annex ZA (normative)

### Normative references to international publications with their corresponding European publications

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.

NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: [www.cencenelec.eu](http://www.cencenelec.eu).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60204-1 (mod) + AMD1	2016 2021	Safety of machinery - Electrical equipment of machines - Part 1: General requirements	EN 60204-1 -	2018 -
IEC 61000-1-2	2016	Electromagnetic compatibility (EMC) - Part 1-2: General - Methodology for the achievement of functional safety of electrical and electronic systems including equipment with regard to electromagnetic phenomena	EN 61000-1-2	2016
IEC 61508-1	2010	Functional safety of electrical/electronic/programmable electronic safety-related systems – Part 1: General requirements	IEC 61508-1	2010
IEC 61508-2	2010	Functional safety of electrical/electronic/programmable electronic safety-related systems - Part 2: Requirements for electrical/electronic/programmable electronic safety-related systems	EN 61508-2	2010
IEC 61508-3	2010	Functional safety of electrical/electronic/programmable electronic safety-related systems - Part 3: Software requirements	EN 61508-3	2010
IEC 61508-4	2010	Functional safety of electrical/electronic/programmable electronic safety-related systems - Part 4: Definitions and abbreviations	EN 61508-4	2010
IEC 61508-5	2010	Functional safety of electrical/electronic/programmable electronic safety-related systems - Part 5: Examples of methods for the determination of safety integrity levels	EN 61508-5	2010
IEC 61508-6	2010	Functional safety of electrical/electronic/programmable electronic safety-related systems - Part 6: Guidelines on the application of IEC 61508-2 and IEC 61508-3	EN 61508-6	2010

**EN IEC 62061:2021/A1:2024 (E)**

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61508-7	2010	Functional safety of electrical/electronic/programmable electronic safety-related systems - Part 7: Overview of techniques and measures	EN 61508-7	2010
ISO 12100	2010	Safety of machinery - General principles for design - Risk assessment and risk reduction	EN ISO 12100	2010
ISO 13849-1	2023	Safety of machinery - Safety-related parts of control systems - Part 1: General principles for design	EN ISO 13849-1	2023
ISO 13849-2	2012	Safety of machinery - Safety-related parts of control systems - Part 2: Validation	EN ISO 13849-2	2012

iTeh Standards  
 (<https://standards.iteh.ai>)  
 Document Preview

[SIST EN IEC 62061:2021/A1:2024](https://standards.iteh.ai/catalog/standards/sist/49acb1d5-bb2b-4fad-950f-3d006bdd64d0/sist-en-iec-62061-2021-a1-2024)

<https://standards.iteh.ai/catalog/standards/sist/49acb1d5-bb2b-4fad-950f-3d006bdd64d0/sist-en-iec-62061-2021-a1-2024>