

STN	Bezpečnosť strojov Funkčná bezpečnosť bezpečnostných riadiacich systémov Zmena A1	STN EN IEC 62061/A1 35 2220
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Safety of machinery - Functional safety of safety-related control systems

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 09/24

STN EN IEC 62061 z októbra 2021 sa môže bez tejto zmeny A1 používať do 28. 6. 2027.

Obsahuje: EN IEC 62061:2021/A1:2024, IEC 62061:2021/AMD1:2024

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.

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- latest date by which the national standards conflicting with the (dow) 2027-06-28 document have to be withdrawn

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.

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.

<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

Annex ZZ (informative)

Relationship between this European standard and the essential requirements of Directive 2006/42/EC [2006 OJ L 157] aimed to be covered

This European standard has been prepared under a Commission's standardisation request "M/396" to provide one voluntary means of conforming to *essential* requirements of Directive 2006/42/EC of the European Parliament and of the Council of 17 May 2006 on machinery, and amending Directive 95/16/EC (recast) [2006 OJ L 157].

Once this standard is cited in the Official Journal of the European Union under that Directive, compliance with the normative clauses of this standard given in Table ZZ.1 confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding essential requirements of that Directive, and associated EFTA regulations.

Table ZZ.1 — Correspondence between this European standard and Annex 1 of Directive] 2006/42/EC [2006 OJ L 157]

The relevant Essential Requirements of Directive 2006/42/EC	Clause(s) / sub-clause(s) of this EN	Remarks / Notes
1.2.1	Clauses 4, 5, 6, 7, 8, 9.	
1.7.4.2 (e, g, i, r, s)	10.3	This subclause only deals with the instruction for safety functions

WARNING 1 — Presumption of conformity stays valid only as long as a reference to this European standard is maintained in the list published in the Official Journal of the European Union. Users of this standard should consult frequently the latest list published in the Official Journal of the European Union.

WARNING 2 — Other Union legislation may be applicable to the product(s) falling within the scope of this standard.



IEC 62061

Edition 2.0 2024-03

INTERNATIONAL STANDARD

NORME INTERNATIONALE

AMENDMENT 1 AMENDEMENT 1

Safety of machinery – Functional safety of safety-related control systems

Sécurité des machines – Sécurité fonctionnelle des systèmes de commande relatifs à la sécurité

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IEC 62061

Edition 2.0 2024-03

INTERNATIONAL STANDARD

NORME INTERNATIONALE

AMENDMENT 1
AMENDEMENT 1

Safety of machinery – Functional safety of safety-related control systems

Sécurité des machines – Sécurité fonctionnelle des systèmes de commande relatifs à la sécurité

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ELECTROTECHNICAL
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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**SAFETY OF MACHINERY –
FUNCTIONAL SAFETY OF SAFETY-RELATED CONTROL SYSTEMS****AMENDMENT 1****FOREWORD**

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Amendment 1 to IEC 62061:2021 has been prepared by IEC technical committee 44: Safety of machinery – Electrotechnical aspects.

The text of this Amendment is based on the following documents:

Draft	Report on voting
44/1020/FDIS	44/1024/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this Amendment is English.

IEC 62061:2021/AMD1:2024

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This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications/.

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- withdrawn, or
- revised.

1 Scope

Replace, in the 6th paragraph, 3rd dash, "IEC TR 63074" with "IEC TS 63074".

koniec náhľadu – text ďalej pokračuje v platenej verzii STN