



SLOVENSKI STANDARD SIST EN 62080:2010

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Sound signalling devices for household and similar purposes (IEC 62080:2001 (EQV) + A1:2008)

Akustische Signalgeber für den Haushalt und ähnliche Zwecke (IEC 62080:2001 (EQV) + A1:2008)

Dispositifs de signalisation sonore pour usage domestique et analogue (CEI 62080:2001 (EQV) + A1:2008)

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Ta slovenski standard je istoveten z: EN 62080:2009

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 62080

December 2009

ICS 29.120.99

English version

Sound signalling devices for household and similar purposes
(IEC 62080:2001 + A1:2008)

Dispositifs de signalisation sonore
pour usage domestique et analogue
(CEI 62080:2001 + A1:2008)

Akustische Signalgeber für den Haushalt
und ähnliche Zwecke
(IEC 62080:2001 + A1:2008)

This European Standard was approved by CENELEC on 2009-10-01. 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

Foreword

The text of the International Standard IEC 62080:2001 and its amendment 1:2008, prepared by IEC TC 23 Electrical accessories, was submitted to the Unique Acceptance Procedure and was approved by CENELEC as EN 62080 on 2009-10-01.

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) 2010-10-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2012-10-01

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 62080:2001 + A1:2008 was approved by CENELEC as a European Standard without any modification.

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Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following referenced documents are indispensable for the application 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 When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60065 (mod)	1998	Audio, video and similar electronic apparatus - Safety requirements	EN 60065	1998 ¹⁾
IEC 60068-2-32	1975	Environmental testing - Part 2: Tests - Test Ed: Free fall	EN 60068-2-32	1993 ²⁾
IEC 60068-2-75	1997	Environmental testing - Part 2-75: Tests - Test Eh: Hammer tests	EN 60068-2-75	1997
IEC 60083	1997	Plugs and socket-outlets for domestic and similar general use standardized in member countries of IEC	-	-
IEC 60085	1984	Thermal evaluation and classification of electrical insulation	HD 566 S1	1990 ³⁾
IEC 60112	1979	Method for determining the comparative and the proof tracking indices of solid insulating materials under moist conditions	HD 214 S2	1980 ⁴⁾
IEC 60127	series	Miniature fuses	EN 60127	series
IEC 60212	1971	Standard conditions for use prior to and during the testing of solid electrical insulating materials	HD 437 S1	1984
IEC 60216	series	Electrical insulating materials - Thermal endurance properties	EN 60216	series
IEC 60227	series	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	- ⁵⁾	-
IEC 60245	series	Rubber insulated cables - Rated voltages up to and including 450/750 V	- ⁶⁾	-
IEC 60317	series	Specifications for particular types of winding wires	EN 60317	series
IEC 60320	series	Appliance couplers for household and similar general purposes	EN 60320	series

¹⁾ EN 60065 is superseded by EN 60065:2002, which is based on IEC 60065:2001, mod.

²⁾ EN 60068-2-32 is superseded by EN 60068-2-31:2008, which is based on IEC 60068-2-31:2008.

³⁾ HD 566 S1 was superseded by EN 60085:2004, which is itself superseded by EN 60085:2008, based on IEC 60085:2007.

⁴⁾ HD 214 S1 is superseded by EN 60112:2003, which is based on IEC 60112:2003.

⁵⁾ The HD 21 series, which is related to, but not directly equivalent with the IEC 60227 series, applies instead.

⁶⁾ The HD 22 series, *Cables of rated voltages up to and including 450/750 V and having cross-linked insulation*, which is related to, but not directly equivalent with the IEC 60245 series, applies instead.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60384-14	1993 ⁷⁾	Fixed capacitors for use in electronic equipment - Part 14: Sectional specification: Fixed capacitors for electromagnetic interference suppression and connection to the supply mains	-	-
IEC 60417	database	Graphical symbols for use on equipment	-	-
IEC 60529	1989	Degrees of protection provided by enclosures (IP Code)	EN 60529 + corr. May	1991 1993
IEC 60664-1	1992	Insulation coordination for equipment within low-voltage systems - Part 1: Principles, requirements and tests	EN 60664-1	2003 ⁸⁾
IEC 60664-3	- ⁹⁾	Insulation coordination for equipment within low-voltage systems - Part 3: Use of coating, potting or moulding for protection against pollution	EN 60664-3	2003 ¹⁰⁾
IEC 60670 (mod)	series	Boxes and enclosures for electrical accessories for household and similar fixed electrical installations	EN 60670	series
IEC 60695-2-1	all sheets	Fire hazard testing - Part 2: Test methods - Section 1: Glow-wire test methods	EN 60695-2-1 ¹¹⁾	all sheets
IEC 60730 (mod)	series	Automatic electrical controls for household and similar use	EN 60730	series
IEC 60998 (mod)	series	Connecting devices for low voltage circuits for household and similar purposes	EN 60998	series
IEC 61000-2-2	1990 ¹²⁾	Electromagnetic compatibility (EMC) - Part 2: Environment - Section 2: Compatibility levels for low-frequency conducted disturbances and signalling in public low-voltage power supply systems	-	-
IEC 61000-3-2 (mod)	2000	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current up to and including 16 A per phase)	EN 61000-3-2	2000 ¹³⁾
IEC 61000-3-3	1994	Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage fluctuations and flicker in low-voltage supply systems for equipment with rated current ≤ 16 A	EN 61000-3-3 + corr. July	1995 ¹⁴⁾ 1997
IEC 61000-4-2	1995	Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test	EN 61000-4-2	1995 ¹⁵⁾

⁷⁾ IEC 60384-14 is superseded by IEC 60384-14:2005, which is harmonized as EN 60384-14:2005.

⁸⁾ EN 60664-1 is superseded by EN 60664-1:2007, which is based on IEC 60664-1:2007.

⁹⁾ Undated reference.

¹⁰⁾ Valid edition at date of issue.

¹¹⁾ EN 60695-2-1/0 to 1/3 are superseded by EN 60695-2-10:2001 to EN 60695-2-13:2001, which are based on IEC 60695-2-10:2000 to IEC 60695-2-13:2000.

¹²⁾ IEC 61000-2-2 is superseded by IEC 61000-2-2:2002, which is harmonized as EN 61000-2-2:2002.

¹³⁾ EN 61000-3-2 is superseded by EN 61000-3-2:2006, which is based on IEC 61000-3-2:2005.

¹⁴⁾ EN 61000-3-3 is superseded by EN 61000-3-3:2008, which is based on IEC 61000-3-3:2008.

¹⁵⁾ EN 61000-4-2 is superseded by EN 61000-4-2:2009, which is based on IEC 61000-4-2:2008.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61000-4-3 (mod)	1995	Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test	EN 61000-4-3	1996 ¹⁶⁾
IEC 61000-4-4	1995	Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test	EN 61000-4-4	1995 ¹⁷⁾
IEC 61000-4-5 + corr. October	1995 1995	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test	EN 61000-4-5	1995 ¹⁸⁾
IEC 61000-4-6	1996	Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields	EN 61000-4-6	1996 ¹⁹⁾
IEC 61000-4-11	1994	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests	EN 61000-4-11	1994 ²⁰⁾
IEC 61558-1 (mod)	1997	Safety of power transformers, power supply units and similar - Part 1: General requirements and tests	EN 61558-1 + A11	1997 ²¹⁾ 2003
CISPR 14	series	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus	EN 55014	series
ISO 1456	1988 ²²⁾	Metallic coatings - Electrodeposited coatings of nickel plus chromium and of copper plus nickel plus chromium	-	-
ISO 2081	1986 ²³⁾	Metallic coatings - Electroplated coatings of zinc on iron or steel	-	-
ISO 2093	1986	Electroplated coatings of tin - Specification and test methods	-	-

¹⁶⁾ EN 61000-4-3 is superseded by EN 61000-4-3:2002, which is based on IEC 61000-4-3:2002.

¹⁷⁾ EN 61000-4-4 is superseded by EN 61000-4-4:2004, which is based on IEC 61000-4-4:2004.

¹⁸⁾ EN 61000-4-5 is superseded by EN 61000-4-5:2006, which is based on IEC 61000-4-5:2005.

¹⁹⁾ EN 61000-4-6 was superseded by EN 61000-4-6:2007, which is itself superseded by EN 61000-4-6:2009, based on IEC 61000-4-6:2008.

²⁰⁾ EN 61000-4-11 is superseded by EN 61000-4-11:2004, which is based on IEC 61000-4-11:2004.

²¹⁾ EN 61558-1 is superseded by EN 61558-1:2005, which is based on IEC 61558-1:2005.

²²⁾ ISO 1456:1988 is superseded by ISO 1456:2009, which is harmonized as EN ISO 1456:2009.

²³⁾ ISO 2081:1986 is superseded by ISO 2081:2008, which is harmonized as EN ISO 2081:2008.

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IEC 62080

Edition 1.1 2009-01

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Sound signalling devices for household and similar purposes

Dispositifs de signalisation sonore pour usage domestique et analogue

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**SOUND SIGNALLING DEVICES
FOR HOUSEHOLD AND SIMILAR PURPOSES**

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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- 9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 62080 has been prepared by Technical Committee 23: Electrical accessories.

This consolidated version of IEC 62080 consists of the first edition (2001) [documents 23/287/FDIS and 23/293/RVD] and its amendment 1 (2008) [documents 23/450/FDIS and 23/457/RVD].

The technical content is therefore identical to the base edition and its amendment and has been prepared for user convenience.

It bears the edition number 1.1.

A vertical line in the margin shows where the base publication has been modified by amendment 1.

Annexes A, B and C form an integral part of this standard.

In this standard, the following print types are used:

- requirements proper: in roman type;
- *test specifications: in italic type;*
- explanatory matter: in smaller roman type.

Words in **bold** are defined in clause 3.

The committee has decided that the contents of the base publication and its amendments will remain unchanged until the maintenance result date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

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SOUND SIGNALLING DEVICES FOR HOUSEHOLD AND SIMILAR PURPOSES

1 Scope

This International Standard applies to **sound signalling devices** with integral enclosures or to **sound signalling devices** intended to be fitted into or supplied with enclosures according to IEC 60670 intended for household and similar purposes with **rated voltages** not exceeding 250 V a.c. or 250 V d.c. and with rated power inputs not exceeding 100 VA. In these **sound signalling devices** an indicating light having a rated input power not exceeding 10 VA may also be incorporated.

These products are designated as "devices" throughout the remainder of the text.

This standard applies to **fixed, portable and plug-in devices** for indoor or outdoor use.

In locations where special conditions prevail, special constructions may be required.

NOTE 1 This standard or parts of it may be used as a guide for **sound signalling devices** having a voltage less than 50 V a.c. or 75 V d.c. Additional requirements for **sound signalling devices** having a voltage less than 50 V a.c. or 75 V d.c. are under consideration.

NOTE 2 This standard does not cover the radio transmitting or receiving functions.

2 Normative references

SIST EN 62080:2010

The following referenced documents are indispensable for the application 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.

IEC 60065:1998, *Audio, video and similar electronic apparatus – Safety requirements*

IEC 60068-2-32:1975, *Environmental testing – Part 2: Tests. Test Ed: Free fall (Procedure 1)*

IEC 60068-2-75:1997, *Environmental testing – Part 2-75: Tests. Test Eh: Hammer tests*

IEC 60083:1997, *Plugs and socket-outlets for domestic and similar general use standardized in member countries of IEC*

IEC 60085:1984, *Thermal evaluation and classification of electrical insulation*

IEC 60112:1979, *Method for determining the comparative and the proof tracking indices of solid insulating materials under moist conditions*

IEC 60127 (all parts), *Miniature fuses*

IEC 60212:1971, *Standard conditions for use prior to and during the testing of solid electrical insulating materials*

IEC 60216 (all parts), *Guide for the determination of thermal endurance properties of electrical insulating materials*

IEC 60227 (all parts), *Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V*

IEC 60245 (all parts), *Rubber insulated cables – Rated voltages up to and including 450/750 V*

IEC 60317 (all parts), *Specifications for particular types of winding wires*

IEC 60320 (all parts), *Appliance couplers for household and similar general purposes*

IEC 60384-14:1993, *Fixed capacitors for use in electronic equipment – Part 14: Sectional specification: Fixed capacitors for electromagnetic interference suppression and connection to the supply mains*

IEC 60417 (all parts), *Graphical symbols for use on equipment*

IEC 60529:1989, *Degrees of protection provided by enclosures (IP Code)*

IEC 60664-1:1992, *Insulation coordination for equipment within low-voltage systems – Part 1: Principles, requirements and tests*

IEC 60664-3, *Insulation coordination for equipment within low-voltage systems – Part 3: Use of coatings to achieve insulation coordination of printed board assemblies*

IEC 60670, *General requirements for enclosures for accessories for household and similar fixed-electrical installations*

IEC 60695-2-1 (all sheets) *Fire hazard testing – Part 2: Test methods – Section 1: Glow-wire test and guidance*

IEC 60730 (all parts), *Automatic electrical controls for household and similar use*

IEC 60998 (all parts), *Connecting devices for low-voltage circuits for household and similar purposes*

IEC 61000-2-2:1990, *Electromagnetic compatibility (EMC) – Part 2: Environment – Section 2: Compatibility levels for low-frequency conducted disturbances and signalling in public low-voltage power supply systems*

IEC 61000-3-2:2000, *Electromagnetic compatibility (EMC) – Part 3-2: Limits – Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)*

IEC 61000-3-3:1994, *Electromagnetic compatibility (EMC) – Part 3: Limits – Section 3: Limitation of voltage fluctuation and flicker in low-voltage supply systems for equipment with rated current ≤ 16 A*

IEC 61000-4-2:1995, *Electromagnetic compatibility (EMC) – Part 4: Testing and measurement techniques – Section 2: Electrostatic discharge immunity test. Basic EMC Publication*

IEC 61000-4-3:1995, *Electromagnetic compatibility (EMC) – Part 4: Testing and measurement techniques – Section 3: Radiated, radio-frequency, electromagnetic field immunity test*

IEC 61000-4-4:1995, *Electromagnetic compatibility (EMC) – Part 4: Testing and measurement techniques – Section 4: Electrical fast transient/burst immunity test. Basic EMC Publication*

IEC 61000-4-5:1995, *Electromagnetic compatibility (EMC) – Part 4: Testing and measurement techniques – Section 5: Surge immunity test*

IEC 61000-4-6:1996, *Electromagnetic compatibility (EMC) – Part 4: Testing and measurement techniques – Section 6: Immunity to conducted disturbances, induced by radio-frequency fields*

IEC 61000-4-11:1994, *Electromagnetic compatibility (EMC) – Part 4: Testing and measuring techniques – Section 11: Voltage dips, short interruptions and voltage variations immunity tests*

IEC 61558-1:1997, *Safety of power transformers, power supply units and similar – Part 1: General requirements and tests*