



# SLOVENSKI STANDARD

## SIST EN 62246-1:2011

01-december-2011

Nadomešča:

SIST EN 62246-1:2003

SIST EN 62246-2:2008

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### Stikala reed - 1. del: Splošne zahteve

Reed switches - Part 1: Generic specification

Reedschalter - Teil 1: Fachgrundspezifikation

Contacts à lames souples - Partie 1: Spécification générique

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Ta slovenski standard je istoveten z: **EN 62246-1:2011**

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### ICS:

29.120.70      Releji      Relays

**SIST EN 62246-1:2011**      **en**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 62246-1**

March 2011

ICS 29.120.70

Supersedes EN 62246-1:2002, EN 62246-2:2008

English version

**Reed switches -  
Part 1: Generic specification  
(IEC 62246-1:2011)**

Contacts à lames souples -  
Partie 1: Spécification générique  
(CEI 62246-1:2011)

Reedschalter -  
Teil 1: Fachgrundspezifikation  
(IEC 62246-1:2011)

This European Standard was approved by CENELEC on 2011-03-17. 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.

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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**

## Foreword

The text of document 94/314/FDIS, future edition 2 of IEC 62246-1, prepared by IEC TC 94, All-or-nothing electrical relays, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 62246-1 on 2011-03-17.

This European Standard supersedes EN 62246-1:2002 and EN 62246-2:2008.

This edition includes the following significant technical changes with respect to EN 62246-1:2002 and EN 62246-2:2008:

- update of references, terms and definitions;
- renumbering of clauses to bring them into a more logical order;
- inclusion of the generic specifications for all types of reed switches, but mercury wetted reed switches have been removed from the scope due to their potential for environmental impact;
- inclusion of three fundamental conformity assessment procedures for quality assessment;
- improvement of electrical endurance tests covering resistive, inductive, capacitive and filament lamp contact loads;
- renumbering of all annexes in the order they are referenced in the body of the standard;
- improvement of test procedures;
- inclusion of a new Annex C (informative) for electrical endurance test circuit, an Annex D (informative) for inrush current loads, an Annex E (informative) for conditional short-circuit current test circuit, an Annex F (informative) for electrical ratings based on classification, an Annex G (informative) for example of test arrangement for contact reliability test, an Annex H (informative) for example of test arrangement for making current capacity test and an Annex I (informative) for example of test arrangement for breaking current capacity test.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN and CENELEC shall not be held responsible for identifying any or all such patent rights.

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) | 2011-12-17 |
| – latest date by which the national standards conflicting with the EN have to be withdrawn   | (dow) | 2014-03-17 |

Annex ZA has been added by CENELEC.

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## Endorsement notice

The text of the International Standard IEC 62246-1:2011 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:

IEC 60027 series	NOTE	Harmonized as EN 60027 series (not modified).
IEC 60317-1	NOTE	Harmonized as EN 60317-1.
IEC 61000-4-5:2005	NOTE	Harmonized as EN 61000-4-5:2006 (not modified).
IEC 61810-1:2008	NOTE	Harmonized as EN 61810-1:2008 (not modified).
IEC 61810-2	NOTE	Harmonized as EN 61810-2.
IEC 61811-1	NOTE	Harmonized as EN 61811-1.
IEC 62246 series	NOTE	Harmonized as EN 62246 series (not modified).
ISO/IEC 17050-1	NOTE	Harmonized as EN ISO/IEC 17050-1.
ISO 9000	NOTE	Harmonized as EN ISO 9000.
ISO 9001	NOTE	Harmonized as EN ISO 9001.

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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 60068-1	1988	Environmental testing - Part 1: General and guidance	EN 60068-1 <sup>1)</sup>	1994
IEC 60068-2-1	2007	Environmental testing - Part 2-1: Tests - Test A: Cold	EN 60068-2-1	2007
IEC 60068-2-2	2007	Environmental testing - Part 2-2: Tests - Test B: Dry heat	EN 60068-2-2	2007
IEC 60068-2-6	2007	Environmental testing - Part 2-6: Tests - Test Fc: Vibration (sinusoidal)	EN 60068-2-6	2008
IEC 60068-2-7	1983	Environmental testing - Part 2: Tests. Test Ga: Acceleration, steady state	EN 60068-2-7 <sup>2)</sup>	1993
IEC 60068-2-11	1981	Environmental testing - Part 2: Tests. Test Ka: Salt mist	EN 60068-2-11	1999
IEC 60068-2-13	1983	Environmental testing - Part 2: Tests. Test M: Low air pressure	EN 60068-2-13	1999
IEC 60068-2-14	2009	Environmental testing - Part 2-14: Tests - Test N: Change of temperature	EN 60068-2-14	2009
IEC 60068-2-17	1994	Environmental testing - Part 2: Tests - Test Q: Sealing	EN 60068-2-17	1994
IEC 60068-2-20	2008	Environmental testing - Part 2-20: Tests - Test T: Test methods for solderability and resistance to soldering heat of devices with leads	EN 60068-2-20	2008
IEC 60068-2-21	2006	Environmental testing - Part 2-21: Tests - Test U: Robustness of terminations and integral mounting devices	EN 60068-2-21	2006
IEC 60068-2-27	2008	Environmental testing - Part 2-27: Tests - Test Ea and guidance: Shock	EN 60068-2-27	2009
IEC 60068-2-30	2005	Environmental testing - Part 2-30: Tests - Test Db: Damp heat, cyclic (12 h + 12 h cycle)	EN 60068-2-30	2005
IEC 60068-2-78	-	Environmental testing - Part 2-78: Tests - Test Cab: Damp heat, steady state	EN 60068-2-78	-

<sup>1)</sup> EN 60068-1 includes A1 to IEC 60068-1 + corr. October .

<sup>2)</sup> EN 60068-2-7 includes A1 to IEC 60068-2-7.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60096	Series	Radio-frequency cables	-	-
IEC 60410	-	Sampling plans and procedures for inspection by attributes	-	-
IEC 60947-5-1	2003	Low-voltage switchgear and controlgear - Part 5-1: Control circuit devices and switching elements - Electromechanical control circuit devices	EN 60947-5-1 + corr. July	2004 2005
IEC QC 001002-1	1998	IEC quality assessment system for electronic components (IECQ) - Rules of procedure - Part 1: Administration	-	-
IEC QC 001002-3	2005	IEC Quality Assessment System for Electronic-Components (IECQ) - Rules of Procedure - Part 3: Approval procedures	-	-

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IEC 62246-1

Edition 2.0 2011-02

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

Reed switches – iTeh STANDARD PREVIEW  
Part 1: Generic specification  
(standards.iteh.ai)

Contacts à lames souples – SIST EN 62246-1:2011  
Partie 1: Spécification générique  
<https://standards.iteh.ai/catalog/standards/sist/a182e3a5-5709-45d4-b7eb-e3a43ff88b04/sist-en-62246-1-2011>

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

COMMISSION  
ELECTROTECHNIQUE  
INTERNATIONALE

PRICE CODE XC  
CODE PRIX

ICS 29.120.70

ISBN 978-2-88912-358-2

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

## REED SWITCHES –

## Part 1: Generic specification

## 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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International Standard IEC 62246-1 has been prepared by IEC technical committee 94: All-or-nothing electrical relays.

This standard cancels and replaces the first edition of IEC 62246-1 published in 2002 and the first edition of IEC 62246-2 published in 2007. It constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous editions:

- update of references, terms and definitions;
- renumbering of clauses to bring them into a more logical order;
- inclusion of the generic specifications for all types of reed switches, but mercury wetted reed switches have been removed from the scope due to their potential for environmental impact;
- inclusion of three fundamental conformity assessment procedures for quality assessment;