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Standards

Irish Standard  
I.S. EN 62246-2:2008

# Reed contact units -- Part 2: Heavy-duty reed switches (IEC 62246-2:2007 (EQV))

## I.S. EN 62246-2:2008

*Incorporating amendments/corrigenda issued since publication:*

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EUROPEAN STANDARD

**EN 62246-2**

NORME EUROPÉENNE

EUROPÄISCHE NORM

January 2008

ICS 29.120.70

English version

**Reed contact units -  
Part 2: Heavy-duty reed switches  
(IEC 62246-2:2007)**

Contacts à lames souples  
en enceinte scellée -  
Partie 2: Relais à lames souples  
à usage intensif  
(CEI 62246-2:2007)

Reedkontakt-Einheiten -  
Teil 2: Hochleistungs-Reedschalter  
(IEC 62246-2:2007)

This European Standard was approved by CENELEC on 2007-12-01. 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.

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

**Central Secretariat: rue de Stassart 35, B - 1050 Brussels**

## Foreword

The text of document 94/243/CDV, future edition 1 of IEC 62246-2, prepared by IEC TC 94, All-or-nothing electrical relays, was submitted to the IEC-CENELEC Parallel Unique Acceptance Procedure and was approved by CENELEC as EN 62246-2 on 2007-12-01.

This European Standard is to be read in conjunction with EN 62246-1:2002.

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) | 2008-09-01 |
| – latest date by which the national standards conflicting with the EN have to be withdrawn                                               | (dow) | 2010-12-01 |

Annex ZA has been added by CENELEC.

## Endorsement notice

The text of the International Standard IEC 62246-2:2007 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 60317-1 + A1 + A2	NOTE	Harmonized as EN 60317-1:1994 + A1:1997 + A2:1997 (not modified).
IEC 60947-5-1	NOTE	Harmonized as EN 60947-5-1:2004 (not modified).
IEC 61810-1	NOTE	Harmonized as EN 61810-1:2004 (not modified).
IEC 61810-2	NOTE	Harmonized as EN 61810-2:2005 (not modified).
IEC 61811-1	NOTE	Harmonized as EN 61811-1:1999 (not modified).
ISO/IEC 17050-1	NOTE	Harmonized as EN ISO/IEC 17050-1:2004 (not modified).
ISO 9000	NOTE	Harmonized as EN ISO 9000:2005 (not modified).
ISO 9001	NOTE	Harmonized as EN ISO 9001:2000 (not modified).

## 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 62246-1	2002	Reed contacts units - Part 1: Generic specification	EN 62246-1	2002
IECEE 01	2006	IEC System of Conformity Assessment Schemes for Electrotechnical Equipment and Components (IECEE) - Basic rules	—	—
IECEE 03	2006	Rules of Procedure of the Scheme of the IECEE for Mutual Recognition of Conformity Assessment Certificates for Electrotechnical Equipment and Components (CB-FCS)	—	—
IECQ 01	2003	IEC Quality Assessment System for Electronic Components (IECQ) - Basic Rules	—	—
IECQ QC 001002-1	1998	IEC Quality Assessment System for Electronic Components (IECQ) - Rules of Procedure - Part 1: Administration	—	—

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IEC 62246-2

Edition 1.0 2007-10

# INTERNATIONAL STANDARD

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**Reed contact units –  
Part 2: Heavy-duty reed switches**



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IEC 62246-2

Edition 1.0 2007-10

# INTERNATIONAL STANDARD

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**Reed contact units –  
Part 2: Heavy-duty reed switches**

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

PRICE CODE



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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**REED CONTACT UNITS –****Part 2: Heavy-duty reed switches**

## 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 62246-2 has been prepared by IEC technical committee 94: All-or-nothing electrical relays.

This part of IEC 62246 is to be read in conjunction with IEC 62246-1.

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

CDV	Report on voting
94/243/CDV	94/257A/RVC

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

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts of IEC 62246 series, published under the general title *Reed contact units*, can be found on the IEC website.

The committee has decided that the contents of this publication 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.

A bilingual version of this publication may be issued at a later date.

## REED CONTACT UNITS –

### Part 2: Heavy-duty reed switches

#### 1 General

##### 1.1 Scope

This part of IEC 62246 applies to the switching performance of heavy-duty reed switches for use in industrial applications based upon Part 1.

This part of IEC 62246 specifies reliability tests, rated making and breaking capacities, rated impulse voltages, rated conditional short-circuit currents, temperature rise and construction testing in addition to the requirements of Part 1.

Heavy-duty reed switches are glass sealed contact units and include high pressure sealed types. This part of IEC 62246 does not apply to mercury-wetted reed contact units.

NOTE 1 Heavy-duty reed switches are mainly used within electromagnetic switching devices, valves, solenoids, power relays, etc., as the electromagnetic load switching elements. The load conditions should be selected from the standard inductive loads and the load specifications specified in IEC 61810-1 and IEC 60947-5-1.

NOTE 2 For elementary relays using heavy-duty reed switches as contact elements, this standard should be used together with IEC 61810-1 and IEC 61811-1 as applicable.

NOTE 3 For electromechanical control circuit devices using heavy-duty reed switches as contact elements, this standard should be used together with IEC 60947-5-1 as applicable.

##### 1.2 Normative references

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 62246-1:2002, *Reed contact units – Part 1: Generic specification*

IECEE 01:2006, *IEC System of Conformity Assessment Schemes for Electrotechnical Equipment and Components (IECEE) – Basic rules*

IECEE 03:2006, *Rules of Procedure of the Scheme of the IECEE for Mutual Recognition of Conformity Assessment Certificates for Electrotechnical Equipment and Components (CB-FCS)*

IECQ 01:2003, *IEC Quality Assessment System for Electronic Components (IECQ) – Basic Rules*

IECQ QC 001002-1:1998, *IEC Quality Assessment System for Electronic Components (IECQ) – Rules of Procedure – Part 1: Administration*

##### 1.3 Terms, definitions, abbreviations and symbols

For the purposes of this document, 1.3 of Part 1 applies with the following amendments.

*Replace 1.3.1 as follows:*

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