



IEC 62246-2

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# INTERNATIONAL STANDARD

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

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

## REED CONTACT UNITS –

## Part 2: Heavy-duty reed switches

## FOREWORD

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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- withdrawn,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.

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## 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 01:2005, *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*