
Electromechanical components for electronic equipment - Basic testing procedure and measuring methods - Part 1: General examination - Section 3: Test 1c - Electrical engagement length (IEC 60512-1-3:1997)

Electromechanical components for electronic equipment - Basic testing procedures and measuring methods -- Part 1: General examination -- Section 3: Test 1c - Electrical engagement length

Elektrisch-mechanische Bauelemente für elektronische Einrichtungen - Meß- und Prüfverfahren -- Teil 1: Allgemeine Untersuchungen -- Hauptabschnitt 3: Prüfung 1c - Kontaktüberdeckung

Composants électromécaniques pour équipements électroniques - Procédures d'essai de base et méthodes de mesure -- Partie 1: Examen général -- Section 3: Essai 1c - Engagement de contact

Ta slovenski standard je istoveten z: EN 60512-1-3:1997

ICS:

31.220.01	Elektromehanske komponente (sestavni deli, gradniki) na splošno	Electromechanical components in general
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SIST EN 60512-1-3:2002**en**

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 60512-1-3

October 1997

ICS 31.220.01

English version

Electromechanical components for electronic equipment
Basic testing procedures and measuring methods
Part 1: General examination
Section 3: Test 1c - Electrical engagement length
(IEC 60512-1-3:1997)

Composants électromécaniques
pour équipements électroniques
Procédures d'essai de base et
méthodes de mesure
Partie 1: Examen général
Section 3: Essai 1c - Engagement
de contact
(CEI 60512-1-3:1997)

Elektrisch-mechanische Bauelemente
für elektronische Einrichtungen
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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, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

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 48B/591/FDIS, future edition 1 of IEC 60512-1-3, prepared by SC 48B, Connectors, of IEC TC 48, Electromechanical components and mechanical structures for electronic equipment, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60512-1-3 on 1997-10-01.

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) 1998-07-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 1998-07-01

Annexes designated "normative" are part of the body of the standard.
In this standard, annex ZA is normative.
Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60512-1-3:1997 was approved by CENELEC as a European Standard without any modification.

SIST EN 60512-1-3:2002

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Annex ZA (normative)**Normative references to international publications
with their corresponding European publications**

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

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 60050(581)	1978	International Electrotechnical Vocabulary (IEV) Chapter 581: Electromechanical components for electronic equipment	-	-

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**NORME
INTERNATIONALE
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**CEI
IEC**

60512-1-3

Première édition
First edition
1997-07

**Composants électromécaniques pour
équipements électroniques –
Procédures d'essai de base et
méthodes de mesure –**

**Partie 1:
Examen général –
Section 3: Essai 1c – Engagement de contact**

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**Electromechanical components for
electronic equipment –
Basic testing procedures and
measuring methods –**

**Part 1:
General examination –
Section 3: Test 1c – Electrical engagement length**

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Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**ELECTROMECHANICAL COMPONENTS
 FOR ELECTRONIC EQUIPMENT –
 BASIC TESTING PROCEDURES AND MEASURING METHODS –**

**Part 1: General examination –
 Section 3: Test 1c – Electrical engagement length**

FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the 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, the IEC publishes International Standards. 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. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of the IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested National Committees.
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- 6) Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. The IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 60512-1-3 has been prepared by IEC subcommittee 48B: Connectors, of IEC technical committee 48: Electromechanical components and mechanical structures for electronic equipment.

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

FDIS	Report on voting
48B/591/FDIS	48B/636/RVD

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

ELECTROMECHANICAL COMPONENTS FOR ELECTRONIC EQUIPMENT – BASIC TESTING PROCEDURES AND MEASURING METHODS –

Part 1: General examination – Section 3: Test 1c – Electrical engagement length

1 Scope and object

This section of IEC 60512-1, when required by the detail specification, is used for testing electromechanical components within the scope of IEC technical committee 48. This test may also be used for similar components when specified in a detail specification.

The object of this test is to define a standard test method to measure the electrical engagement length in a connector as defined in IEC 581-03-15.

2 Normative references

The following normative document contains provisions which, through reference in this text, constitute provisions of this part of IEC 60512-1. At the time of publication, the editions indicated were valid. All normative documents are subject to revision, and parties to agreements based on this part of IEC 60512-1 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

IEC 60050(581):1978, *International Electrotechnical Vocabulary (IEV) – Chapter 581: Electromechanical components for electronic equipment*

3 Preparation of the specimen

The connectors shall be prepared as specified in the detail specification. Unless otherwise specified in the detail specification, the fixed part of the specimen shall be mounted as in normal service and the free part shall be mounted on a fixture permitting measurement of the distance of travel.

NOTE – Some female contacts have a sleeve which protects the pressure member(s). This sleeve is not designed to function as a current-carrying member. Therefore, means shall be provided to ensure that, during this test, electrical contact is made between the male contact and the pressure member of the female contact, rather than any such sleeve.

The connectors shall be wired in accordance with the detail specification. The wires in the free and fixed connectors shall be connected in accordance with figure 1.

4 Test method

4.1 Measurements

The specimens shall be connected into a test circuit as shown in figure 1.

Close the switch and adjust the current to 100 mA.