



**NSAI**  
Standards

Irish Standard  
I.S. EN 60286-4:2013

Packaging of components for  
automatic handling - Part 4: Stick  
magazines for electronic components  
encapsulated in packages of different  
forms (IEC 60286-4:2013 (EQV))

## I.S. EN 60286-4:2013

*Incorporating amendments/corrigenda issued since publication:*

The National Standards Authority of Ireland (NSAI) produces the following categories of formal documents:

I.S. xxx: Irish Standard – national specification based on the consensus of an expert panel and subject to public consultation.

S.R. xxx: Standard Recommendation - recommendation based on the consensus of an expert panel and subject to public consultation.

SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

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EUROPEAN STANDARD

**EN 60286-4**

NORME EUROPÉENNE

November 2013

EUROPÄISCHE NORM

ICS 31.020; 31.240

Supersedes EN 60286-4:1998

English version

**Packaging of components for automatic handling -  
Part 4: Stick magazines for electronic components encapsulated in  
packages of different forms  
(IEC 60286-4:2013)**

Emballage des composants pour  
opérations automatisées – Partie 4:  
Magasins chargeurs pour composants  
électroniques encapsulés dans des  
boîtiers de différentes formes  
(CEI 60286-4:2013)

Gurtung und Magazinierung von Bauteilen  
für automatische Verarbeitung -  
Teil 4: Stangenmagazine für elektronische  
Bauelemente mit verschiedenen  
Gehäusen  
(IEC 60286-4:2013)

This European Standard was approved by CENELEC on 2013-08-30. 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 CEN-CENELEC Management Centre 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 CEN-CENELEC Management Centre 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

**CEN-CENELEC Management Centre: Avenue Marnix 17, B - 1000 Brussels**

## I.S. EN 60286-4:2013

EN 60286-4:2013

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### Foreword

The text of document 40/2230/FDIS, future edition 3 of IEC 60286-4, prepared by IEC TC 40, "Capacitors and resistors for electronic equipment" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60286-4:2013.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2014-05-30
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2016-08-30

This document supersedes EN 60286-4:1998.

EN 60286-4:2013 includes the following significant technical changes with respect to EN 60286-4:1998:

Clause 4 describes the guidelines for customer specific stick magazine design. It replaces the magazine design rules for IEC outlined components and rules for orientation of components in stick magazines which have been moved to Annexes Z to D.

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

### Endorsement notice

The text of the International Standard IEC 60286-4:2013 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following note has to be added for the standard indicated:

ISO 11469

NOTE Harmonized as EN ISO 11469.

## Annex ZA (normative)

### Normative references to international publications with their corresponding European publications

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. 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 60191-3	1999	Mechanical standardization of semiconductor devices - Part 3: General rules for the preparation of outline drawings of integrated circuits	EN 60191-3	1999
IEC 60747-1 + corr. August + A1	2006 2008 2010	Semiconductor devices - Part 1: General	-	-

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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**PACKAGING OF COMPONENTS FOR AUTOMATIC HANDLING –**

**Part 4: Stick magazines for electronic components encapsulated  
in packages of different forms**

FOREWORD

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International Standard IEC 60286-4 has been prepared by IEC technical committee 40: Capacitors and resistors for electronic equipment.

This third edition cancels and replaces the second edition published in 1997 and constitutes a technical revision.

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

- Clause 4 describes the guidelines for customer specific stick magazine design. It replaces the magazine design rules for IEC outlined components and rules for orientation of components in stick magazines which have been moved to Annexes A to D.



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

FDIS	Report on voting
40/2230/FDIS	40/2241/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.

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

A list of all parts in the IEC 60286 series, published under the general title *Packaging of components for automatic handling*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the stability 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

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