

Irish Standard I.S. EN 61837-3:2015

Surface mounted piezoelectric devices for frequency control and selection - Standard outlines and terminal lead connections - Part 3: Metal enclosures

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I.S. EN 61837-3:2015

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National Foreword

I.S. EN 61837-3:2015 is the adopted Irish version of the European Document EN 61837-3:2015, Surface mounted piezoelectric devices for frequency control and selection - Standard outlines and terminal lead connections - Part 3: Metal enclosures

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EUROPEAN STANDARD

EN 61837-3

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2015

ICS 31.140

Supersedes EN 61837-3:2000

English Version

Surface mounted piezoelectric devices for frequency control and selection - Standard outlines and terminal lead connections - Part 3: Metal enclosures

(IEC 61837-3:2015)

Dispositifs piézoélectriques à montage en surface pour la commande et le choix de la fréquence - Encombrements normalisés et connexions des sorties - Partie 3: Enveloppes métalliques (IEC 61837-3:2015) Oberflächenmontierbare piezoelektrische Bauteile zur Frequenzstabilisierung und -selektion - Norm-Gehäusemaße und Anschlüsse - Teil 3: Metallgehäuse (IEC 61837-3:2015)

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

EN 61837-3:2015 (E)

European foreword

The text of document 49/1118/FDIS, future edition 2 of IEC 61837-3, prepared by IEC/TC 49 "Piezoelectric, dielectric and electrostatic devices and associated materials for frequency control, selection and detection" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 61837-3:2015.

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)	2016-06-04
•	latest date by which the national standards conflicting with the document have to be withdrawn	(dow)	2018-05-20

This document supersedes EN 61837-3:2000.

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In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60122-3:2010	NOTE	Harmonized as EN 60122-3:2010 (not modified).
IEC 60191-6:2009	NOTE	Harmonized as EN 60191-6:2009 (not modified).
IEC 60368-1:2000	NOTE	Harmonized as EN 60368-1:2000 (not modified).
A1:2004	A1:200	4
IEC 60368-2-2:1996	NOTE	Harmonized as EN 60368-2-2:1999 (not modified).
IEC 60368-3:2010	NOTE	Harmonized as EN 60368-3:2010 (not modified).
IEC 60679-1:2007	NOTE	Harmonized as EN 60679-1:2007 (not modified).
IEC 60679-3:2012	NOTE	Harmonized as EN 60679-3:2013 (not modified).
IEC 60862-1:2003	NOTE	Harmonized as EN 60862-1:2003 (not modified).
IEC 60862-2:2012	NOTE	Harmonized as EN 60862-2:2012 (not modified).
IEC 60862-3:2003	NOTE	Harmonized as EN 60862-3:2003 (not modified).
ISO 1101:2012	NOTE	Harmonized as EN ISO 1101:2013 (not modified).

EN 61837-3:2015 (E)

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

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NOTE 1 When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	EN/HD	<u>Year</u>
IEC 61240	2012	Piezoelectric devices - Preparation of	EN 61240	2012
		outline drawings of surface-mounted		
		devices (SMD) for frequency control and		
		selection - General rules		

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IEC 61837-3

Edition 2.0 2015-04

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Surface mounted piezoelectric devices for frequency control and selection – Standard outlines and terminal lead connections – Part 3: Metal enclosures

Dispositifs piézoélectriques à montage en surface pour la commande et le choix de la fréquence – Encombrements normalisés et connexions des sorties – Partie 3: Enveloppes métalliques







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IEC 61837-3

Edition 2.0 2015-04

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Surface mounted piezoelectric devices for frequency control and selection – Standard outlines and terminal lead connections – Part 3: Metal enclosures

Dispositifs piézoélectriques à montage en surface pour la commande et le choix de la fréquence – Encombrements normalisés et connexions des sorties – Partie 3: Enveloppes métalliques

INTERNATIONAL ELECTROTECHNICAL COMMISSION

COMMISSION ELECTROTECHNIQUE INTERNATIONALE

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

SURFACE MOUNTED PIEZOELECTRIC
DEVICES FOR FREQUENCY CONTROL AND SELECTION –
STANDARD OUTLINES AND TERMINAL LEAD CONNECTIONS –

Part 3: Metal enclosures

FOREWORD

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International Standard IEC 61837-3 has been prepared by IEC technical committee 49: Piezoelectric, dielectric and electrostatic devices and associated materials for frequency control, selection and detection.

This second edition cancels and replaces the first edition published in 2000. It constitutes a technical revision.

This International Standard is to be read in conjunction with IEC 61240:2012.

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

• The outline drawing is defined as one set of drawings consisting of four views, which are the view from above, the front view, the view from the right, and the view from below; the view from the right was drawn optionally in the previous edition.

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- The height of package (G_1) is eliminated, instead total height is expressed by the symbol letter G or with a subscript number.
- The dimensions of terminal lead spacing are shown by the centre position of the terminal leads and its basic value e is $2.54 \times n$ mm (n is an integer) and $1,27 \times n$ mm for package dimensions smaller than 6 mm (See IEC 61240:2012, 5.5). If the terminal lead spacing is not a multiple of the basic value, a subscript number such as e_1 , e_2 is attached, e.g. e_1 , e_2 , etc. If there are plural spacing values, the subscript number is followed by a hyphen and numbers such as e_{1-1} , e_{1-2} , etc.
- In terminal land areas, the lengths of each terminal pad are now expressed with maximum values for consumer's convenience. They were expressed as minimum values in the previous edition of IEC 61837-3.
- If there are plural identical enclosures with different height, each enclosure was expressed by a dash (/) and a two-digit number after the basic type name. The identity references are given in the table of the sheet.
- The configurations of the enclosures were revised as shown in Table 1.

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

FDIS	Report on voting	
49/1118/FDIS	49/1140/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 61837 series, published under the general title *Surface mounted* piezoelectric devices for frequency control and selection – Standard outlines and terminal lead connections, 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 website 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.

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SURFACE MOUNTED PIEZOELECTRIC DEVICES FOR FREQUENCY CONTROL AND SELECTION – STANDARD OUTLINES AND TERMINAL LEAD CONNECTIONS –

Part 3: Metal enclosures

1 Scope

This part of IEC 61837 deals with standard outlines and terminal lead connections as they apply to SMDs for frequency control and selection in metal enclosures and is based on IEC 61240 which standardized layout rules of outline drawings of the surface-mounted devices.

2 Normative references

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.

IEC 61240:2012, Piezoelectric devices – Preparation of outline drawings of surface mounted devices (SMD) for frequency control and selection – General rules

3 Configuration of enclosures

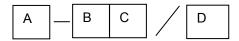
The enclosures of the surface-mounted devices are made of metal with the formed lead terminals based on the descriptive designation system for semiconductors – devices package.

All SMD enclosures described in this part of IEC 61837 are special surface mount types. Therefore, the following designator is used.

SMS (Surface-Mounted, Special)

4 Designation of types

The type designator consists of four parts as follows:



A: Configuration symbol of enclosures:

SMS (Surface-Mounted, Special).

B: Structure of terminal leads

- L: folded leads type;
- J: folded leads type.

If there is a leadless type, it will have no mark.

See Clause 3 of IEC 61240:2012, Classification of SMD.

C: Number of terminal leads



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