



**NSAI**  
Standards

Irish Standard  
I.S. EN 60393-6:2016

# Potentiometers for use in electronic equipment - Part 6: Sectional specification - Surface mount preset potentiometers

**I.S. EN 60393-6:2016**

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

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## National Foreword

I.S. EN 60393-6:2016 is the adopted Irish version of the European Document EN 60393-6:2016, Potentiometers for use in electronic equipment - Part 6: Sectional specification - Surface mount preset potentiometers

This document does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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EUROPEAN STANDARD

**EN 60393-6**

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 2016

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ICS 31.040.20

English Version

**Potentiometers for use in electronic equipment - Part 6:  
Sectional specification - Surface mount preset potentiometers  
(IEC 60393-6:2015)**

Potentiomètres utilisés dans les équipements électroniques  
- Partie 6 : Spécification intermédiaire - Potentiomètres  
d'ajustement pour montage en surface  
(IEC 60393-6:2015)

Potentiometer zur Verwendung in Geräten der Elektronik -  
Teil 6: Rahmenspezifikation - Trimpotentiometer für die  
Oberflächenmontage  
(IEC 60393-6:2015)

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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.

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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**

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**EN 60393-6:2016**

**European foreword**

The text of document 40/2409/FDIS, future edition 2 of IEC 60393-6, 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 60393-6:2016.

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) 2016-10-18
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2019-01-18

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The text of the International Standard IEC 60393-6:2015 was approved by CENELEC as a European Standard without any modification.

## 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 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](http://www.cenelec.eu).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60062	-	Marking codes for resistors and capacitors	EN 60062	-
IEC 60068-1	2013	Environmental testing -- Part 1: General and guidance	EN 60068-1	2014
IEC 60068-2-1	2007	Environmental testing -- Part 2-1: Tests Test A: Cold	EN 60068-2-1	2007
IEC 60068-2-2	2007	Environmental testing -- Part 2-2: Tests Test B: Dry heat	EN 60068-2-2	2007
IEC 60068-2-58	2004	Environmental testing -- Part 2-58: Tests Test Td: Test methods for solderability, resistance to dissolution of metallization and to soldering heat of surface mounting devices (SMD)	EN 60068-2-58	2004
-	-		+ corrigendum Dec.	2004
IEC 60286-3	-	Packaging of components for automatic handling -- Part 3: Packaging of surface mount components on continuous tapes	EN 60286-3	-
IEC 60393-1	2008	Potentiometers for use in electronic equipment -- Part 1: Generic specification	EN 60393-1	2009
IEC 61193-2	2007	Quality assessment systems -- Part 2: Selection and use of sampling plans for inspection of electronic components and packages	EN 61193-2	2007

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**IEC 60393-6**

Edition 2.0 2015-12

# **INTERNATIONAL STANDARD**

# **NORME INTERNATIONALE**

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**Potentiometers for use in electronic equipment –  
Part 6: Sectional specification – Surface mount preset potentiometers**

**Potentiomètres utilisés dans les équipements électroniques –  
Partie 6: Spécification intermédiaire – Potentiomètres d'ajustement pour  
montage en surface**





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**IEC 60393-6**

Edition 2.0 2015-12

# **INTERNATIONAL STANDARD**

# **NORME INTERNATIONALE**

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**Potentiometers for use in electronic equipment –  
Part 6: Sectional specification – Surface mount preset potentiometers**

**Potentiomètres utilisés dans les équipements électroniques –  
Partie 6: Spécification intermédiaire – Potentiomètres d'ajustement pour  
montage en surface**

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## CONTENTS

FOREWORD .....	4
1 General .....	6
1.1 Scope .....	6
1.2 Normative references .....	6
1.3 Information to be given in a detail specification .....	6
1.3.1 General .....	6
1.3.2 Outline drawing and dimensions .....	7
1.3.3 Mounting .....	7
1.3.4 Style .....	7
1.3.5 Resistance law .....	7
1.3.6 Ratings and characteristics .....	8
1.3.7 Marking .....	8
1.3.8 Ordering information .....	8
1.3.9 Additional information (not for inspection purposes) .....	8
1.3.10 Packaging .....	8
1.4 Marking .....	9
1.4.1 General .....	9
1.4.2 Marking for potentiometers .....	9
1.4.3 Marking for packaging .....	9
1.4.4 Additional marking .....	9
2 Preferred ratings, characteristics and test severities .....	9
2.1 Preferred characteristics .....	9
2.1.1 General .....	9
2.1.2 Preferred climatic categories .....	9
2.1.3 Temperature coefficients and temperature characteristics of resistance .....	10
2.1.4 Limits for change in resistance or output voltage ratio .....	10
2.1.5 Total mechanical travel .....	11
2.2 Preferred values of ratings .....	11
2.2.1 General .....	11
2.2.2 Nominal total resistance .....	11
2.2.3 Tolerances on nominal total resistance .....	11
2.2.4 Rated dissipation (in the mounted state) .....	12
2.2.5 Limiting element voltage .....	13
2.2.6 Insulation voltage (for insulated styles) .....	13
2.2.7 Limits for insulation resistance (for insulated styles) .....	13
2.3 Preferred test severities .....	13
2.3.1 General .....	13
2.3.2 Drying .....	13
2.3.3 Vibration .....	13
2.3.4 Shock .....	14
2.3.5 Low air pressure .....	14
2.3.6 Change of temperature .....	14
2.3.7 Mounting .....	14
2.3.8 Solderability .....	14
2.3.9 Resistance to soldering heat .....	15
2.3.10 Component solvent resistance .....	15

2.3.11	Solvent resistance of the marking .....	15
3	Quality assessment procedures .....	15
3.1	General.....	15
3.2	Definitions.....	15
3.2.1	Primary stage of manufacture .....	15
3.2.2	Structurally similar components .....	15
3.2.3	Assessment level EZ (zero nonconforming) .....	15
3.3	Qualification approval .....	16
3.3.1	General .....	16
3.3.2	Qualification approval on the basis of the fixed sample size procedure .....	16
3.3.3	Tests .....	16
3.4	Quality conformance inspection .....	24
3.4.1	Formation of inspection lots .....	24
3.4.2	Test schedule .....	24
3.4.3	Assessment levels .....	24
3.5	Delayed delivery .....	27
	Bibliography.....	28
	Figure 1 – Rated dissipation curve .....	12
	Figure 2 – Rated dissipation curve with smaller area of operation .....	13
	Table 1 – Temperature coefficients and temperature characteristics of resistance .....	10
	Table 2 – Limits for change in resistance or output voltage ratio .....	11
	Table 3 – Fixed sample size test schedule for qualification approval ( <i>1 of 7</i> ).....	18
	Table 4 – Quality conformance inspection: Lot-by-lot .....	25
	Table 5 – Quality conformance inspection: Periodic testing.....	26

## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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### POTENTIOMETERS FOR USE IN ELECTRONIC EQUIPMENT –

#### Part 6: Sectional specification – Surface mount preset potentiometers

#### FOREWORD

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International Standard IEC 60393-6 has been prepared by IEC technical committee 40: Capacitors and resistors for electronic equipment.

This second edition cancels and replaces the first edition published in 2003 and constitutes a technical revision.

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

- a) revision of the information on the assessment level EZ (zero nonconforming);
- b) complete editorial revision.

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

FDIS	Report on voting
40/2409/FDIS	40/2424/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 International Standard is to be used in conjunction with IEC 60393-1:2008.

A list of all parts in the IEC 60363 series, published under the general title *Potentiometers for use in electronic equipment*, can be found on the IEC website.

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

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

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

## POTENTIOMETERS FOR USE IN ELECTRONIC EQUIPMENT –

### Part 6: Sectional specification – Surface mount preset potentiometers

#### 1 General

##### 1.1 Scope

This part of IEC 60393 applies to surface mount preset potentiometers for use in electronic equipment.

This part of IEC 60393 prescribes preferred ratings and characteristics and selects from IEC 60393-1, the appropriate quality assessment procedures, tests and measuring methods, and it gives general performance requirements for this type of potentiometers.

This standard gives the minimum performance requirements and test severities.

##### 1.2 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 60062, *Marking code for resistors and capacitors*

IEC 60068-1:2013, *Environmental testing – Part 1: General and guidance*

IEC 60068-2-1:2007, *Environmental testing – Part 2-1: Tests – Test A: Cold*

IEC 60068-2-2:2007, *Environmental testing – Part 2-2: Tests – Test B: Dry heat*

IEC 60068-2-58:2004, *Environmental testing – Part 2-58: Tests – Test Td: Test methods for solderability, resistance to dissolution of metallization and to soldering heat of surface mounting devices (SMD)*

IEC 60286-3, *Packaging of components for automatic handling – Part 3: Packaging of surface mount components on continuous tapes*

IEC 60393-1:2008, *Potentiometers for use in electronic equipment – Part 1: Generic specification*

IEC 61193-2:2007, *Quality assessment systems – Part 2: Selection and use of sampling plans for inspection of electronic components and packages*

##### 1.3 Information to be given in a detail specification

###### 1.3.1 General

Detail specifications shall be derived from the relevant blank detail specification.

Detail specifications shall not specify requirements inferior to those of the generic, sectional or blank detail specification. When more severe requirements are included, they shall be



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