

**SLOVENSKI STANDARD**  
**SIST EN 62031:2008/A1:2013**  
**01-julij-2013**

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**Moduli LED za splošno razsvetljavo - Varnostne specifikacije**

LED modules for general lighting - Safety specifications

LED-Module für Allgemeinbeleuchtung - Sicherheitsanforderungen

Modules de DEL pour éclairage général - Spécifications de sécurité

**Ta slovenski standard je istoveten z: EN 62031:2008/A1:2013**

[SIST EN 62031:2008/A1:2013](https://standards.iteh.ai/catalog/standards/sist/56c6ba04-eddb-4d11-bd8e-c9bd586a3aa8/sist-en-62031-2008-a1-2013)

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**ICS:**

29.140.99	Drugi standardi v zvezi z žarnicami	Other standards related to lamps
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**SIST EN 62031:2008/A1:2013**

**en**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 62031/A1**

February 2013

ICS 29.140.99; 31.080.99

English version

**LED modules for general lighting -  
Safety specifications  
(IEC 62031:2008/A1:2012)**

Modules de DEL pour éclairage général -  
Spécifications de sécurité  
(CEI 62031:2008/A1:2012)

LED-Module für Allgemeinbeleuchtung -  
Sicherheitsanforderungen  
(IEC 62031:2008/A1:2012)

This amendment A1 modifies the European Standard EN 62031:2008; it was approved by CENELEC on 2012-12-03. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment 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 amendment 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.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

# CENELEC

European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

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

## Foreword

The text of document 34A/1608/FDIS, future edition 1 of IEC 62031:2008/A1, prepared by SC 34A, "Lamps", of IEC TC 34, "Lamps and related equipment" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62031:2008/A1:2013.

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) 2013-09-03
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2015-12-03

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.

This standard covers the Principle Elements of the Safety Objectives for Electrical Equipment Designed for Use within Certain Voltage Limits (LVD - 2006/95/EC).

**STANDARD PREVIEW**  
(standard) **Endorsement notice**

The text of the International Standard IEC 62031:2008/A1:2012 was approved by CENELEC as a European Standard without any modification.

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## 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>
<i>In Annex ZA of EN 62031:2008, <b>add</b>:</i>				
IEC 60417	Data- base	Graphical symbols for use on equipment	-	-
<i>In Annex ZA of EN 62031:2008, <b>replace</b> IEC 60598-1:2003 by:</i>				
IEC 60598-1	-	Luminaires - Part 1: General requirements and tests	EN 60598-1	-

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IEC 62031

Edition 1.0 2012-10

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE



AMENDMENT 1  
AMENDEMENT 1

LED modules for general lighting – Safety specifications

Modules de DEL pour éclairage général – Spécifications de sécurité

[SIST EN 62031:2008/A1:2013](https://standards.iteh.ai/catalog/standards/sist/56c6ba04-eddb-4d11-bd8e-c9bd586a3aa8/sist-en-62031-2008-a1-2013)

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## FOREWORD

This amendment has been prepared by subcommittee 34A: Lamps, of IEC technical committee 34: Lamps and related equipment.

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

FDIS	Report on voting
34A/1608/FDIS	34A/1628/RVD

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

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.

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**IMPORTANT – The 'colour inside' logo on the cover page of this publication indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this document using a colour printer.**

<https://standards.iteh.ai/catalog/standards/sist/56c6ba04-eddb-4d11-bd8e-c9bd586a3aa8/sist-en-62031-2008-a1-2013>

## 2 Normative references

*Replace the reference to IEC 60598-1:2003 with the following:*

IEC 60598-1, *Luminaires – Part 1: General requirements and tests*

*Add the following new reference:*

IEC 60417, *Graphical symbols for use on equipment*. Available at <http://www.graphical-symbols.info/equipment>

## 3 Terms and definitions

*Add the following new definitions:*



**3.11****heat transfer temperature** $t_d$ 

temperature occurring on a representative part of the LED module (or any heat-conducting foil or paste applied as for insertion if delivered with the LED module) (at the indicated position if marked) intended for the passing of heat to the lampholder or to other parts of the luminaire under normal operating conditions and at the rated voltage/current/power or the maximum of the rated voltage/current/power range

NOTE A measurement method is under consideration.

**3.12****heat output to the luminaire** $P_d$ 

power to be transferred to the luminaire by means of heat-conduction in order to keep  $t_c$

NOTE 1  $P_d$  is below the rated power of an LED module.

NOTE 2 For LED modules which do not need heat-conduction to the luminaire for keeping  $t_c$ ,  $P_d$  is equal to zero.

NOTE 3 A measurement method is under consideration.

**4 General requirements**

*Replace 4.5 by the following:*

**4.5** In addition, independent modules shall comply with the requirements of IEC 60598-1, including marking requirements of that standard such as IP classification and mechanical stress.

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**7 Marking**

<https://standards.iteh.ai/catalog/standards/sist/56c6ba04-eddb-4d11-bd8e-c9bd586a3aa8/sist-en-62031-2008-a1-2013>

**7.1 Mandatory marking for built-in or independent modules**

*Replace existing item c) by the following:*

c)

- 1) If the LED module requires a stable voltage(s), the rated supply voltage or voltage range, both together with the supply frequency shall be marked. Marking of the rated supply current(s) is voluntary.
- 2) If the LED module requires a stable current, the rated supply current(s) or current range, both together with the supply frequency shall be marked. Marking of the rated supply voltage(s) is voluntary.

*Replace existing item h) with the following new item h) and new Figure 1:*

- h) Built-in modules shall be marked with the symbol according to Figure 1 in order to separate them from independent modules. The mark shall be located on the packaging or on the LED module itself.