



SLOVENSKI STANDARD SIST EN 62386-102:2009

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**Digitalni naslovljivi vmesnik za razsvetljavo - 102. del: Splošne zahteve - Krmilje
(IEC 62386-102:2009)**

Digital addressable lighting interface - Part 102: General requirements - Control gear
(IEC 62386-102:2009)

Digital adressierbare Schnittstelle für die Beleuchtung - Teil 102: Allgemeine
Anforderungen - Betriebsgeräte (IEC 62386-102:2009)

Interface d'éclairage adressable numérique - Partie 102: Exigences générales -
Appareillages (CEI 62386-102:2009)

Ta slovenski standard je istoveten z: EN 62386-102:2009

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EUROPEAN STANDARD
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**Digital addressable lighting interface -
Part 102: General requirements -
Control gear
(IEC 62386-102:2009)**

Interface d'éclairage
adressable numérique -
Partie 102: Exigences générales -
Appareillages de commande
(CEI 62386-102:2009)

Digital adressierbare Schnittstelle
für die Beleuchtung -
Teil 102: Allgemeine Anforderungen -
Betriebsgeräte
(IEC 62386-102:2009)

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This European Standard was approved by CENELEC on 2009-07-01. 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 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, Bulgaria, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

CENELEC

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

Central Secretariat: Avenue Marnix 17, B - 1000 Brussels

Foreword

The text of document 34C/874/FDIS, future edition 1 of IEC 62386-102, prepared by SC 34C, Auxiliaries for lamps, of IEC TC 34, Lamps and related equipment, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 62386-102 on 2009-07-01.

EN 62386-102:2009, together with EN 62386-101 and EN 62386-201, replaces Clause E.4, "Control by digital signals", and Annex G, "Test procedures for ballasts with digital control interface according to Clause E.4" of EN 60929:2006.

This Part 102 is intended to be used in conjunction with Part 101, which contains general requirements for the relevant product type (system), and with the appropriate part 2XX (particular requirements for control gear) containing clauses to supplement or modify the corresponding clauses in Parts 101 and 102 in order to provide the relevant requirements for each type of product.

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) 2010-04-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2012-07-01

Annex ZA has been added by CENELEC.

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Endorsement notice

The text of the International Standard IEC 62386-102:2009 was approved by CENELEC as a European Standard without any modification.

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

IEC 60598-1	NOTE Harmonized as EN 60598-1:2008 (modified).
IEC 60669-2-1	NOTE Harmonized as EN 60669-2-1:2004 (modified).
IEC 60921	NOTE Harmonized as EN 60921:2004 (not modified).
IEC 60923	NOTE Harmonized as EN 60923:2005 (not modified).
IEC 60925	NOTE Harmonized as EN 60925:1991 (not modified).
IEC 61347-1	NOTE Harmonized as EN 61347-1:2007 (modified).
IEC 61547	NOTE Harmonized as EN 61547:2009 (not modified).
CISPR 15	NOTE Harmonized as EN 55015:2006 (not modified).

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following referenced documents are indispensable for the application of this document. 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 60929	2006	AC-supplied electronic ballasts for tubular fluorescent lamps - Performance requirements	EN 60929 + corr. December	2006 2006
IEC 61347-2-3	- ¹⁾	Lamp controlgear - Part 2-3: Particular requirements for a.c. supplied electronic ballasts for fluorescent lamps	EN 61347-2-3 + corr. July	2001 ²⁾ 2003
IEC 62386-101	2009	Digital addressable lighting interface - Part 101: General requirements - System	EN 62386-101	2009

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¹⁾ Undated reference.

²⁾ Valid edition at date of issue.

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INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Digital addressable lighting interface –
Part 102: General requirements – Control gear**

**Interface d'éclairage adressable numérique –
Partie 102: Exigences générales – Appareillages de commande**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

DIGITAL ADDRESSABLE LIGHTING INTERFACE –

Part 102: General requirements –
Control gear

FOREWORD

- 1) The International Electrotechnical Commission (IEC) 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, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). 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. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 62386-102 has been prepared by subcommittee 34C: Auxiliaries for lamps, of IEC technical committee 34: Lamps and related equipment.

This International Standard, together with IEC 62386-101 and IEC 62386-201, replaces Clause E.4, "Control by digital signals", and Annex G, "Test procedures for ballasts with digital control interface according to Clause E.4", of IEC 60929:2006.

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

FDIS	Report on voting
34C/874/FDIS	34C/883/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.

This Part 102 is intended to be used in conjunction with Part 101, which contains general requirements for the relevant product type (system), and with the appropriate part 2XX (particular requirements for control gear) containing clauses to supplement or modify the corresponding clauses in Parts 101 and 102 in order to provide the relevant requirements for each type of product.

A list of all parts of the IEC 62386 series, under the general title: *Digital addressable lighting interface*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the maintenance result 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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INTRODUCTION

This first edition of IEC 62386-102 is published in conjunction with IEC 62386-101 and with the various parts that make up the IEC 62386-200 series for control gear. A further number of parts covering control devices (to be published as the general requirements standard IEC 62386-103 and the various parts that make up the IEC 62386-300 series of particular requirements for control devices) is under consideration. The division of IEC 62386 into separately published parts provides for ease of future amendments and revisions. Additional requirements will be added as and when a need for them is recognized.

This International Standard, and the other parts that make up the IEC 62386-100 series, in referring to any of the clauses of IEC 62386-101 or IEC 62386-102, specify the extent to which such a clause is applicable and the order in which the tests are to be performed. The parts also include additional requirements, as necessary. All parts that make up IEC 62386-100 series are self-contained and therefore do not include references to each other.

Where the requirements of any of the clauses of IEC 62386-101 are referred to in this International Standard by the sentence "The requirements of IEC 62386-101, Clause "n" apply", this sentence is to be interpreted as meaning that all requirements of the clause in question of Part 101 apply, except any which are clearly inapplicable to the specific type of control gear.

The standardization of the control interface for control of electronic control gear by digital signals is intended to achieve interoperable multi-vendor operation between electronic control gear and lighting control devices, below the level of building management systems. All numbers used in this International Standard are decimal numbers unless otherwise noted. Hexadecimal numbers are given in the format 0xVV, where VV is the value. Binary numbers are given in the format XXXXXXXXb or in the format XXXX XXXX, where X is 0 or 1; "x" in binary numbers means "don't care".