

**Digital addressable lighting interface - Part 203:
Particular requirements for control gears - Discharge
lamps (excluding fluorescent lamps) (device type 2)**

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 62386-203:2009 sisaldab Euroopa standardi EN 62386-203:2009 ingliskeelset teksti.

Standard on kinnitatud Eesti Standardikeskuse 30.10.2009 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 27.10.2009.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN 62386-203:2009 consists of the English text of the European standard EN 62386-203:2009.

This standard is ratified with the order of Estonian Centre for Standardisation dated 30.10.2009 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.

Date of Availability of the European standard text 27.10.2009.

The standard is available from Estonian standardisation organisation.

ICS 29.140.50, 29.140.99

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English version

**Digital addressable lighting interface -
Part 203: Particular requirements for control gear -
Discharge lamps (excluding fluorescent lamps)
(device type 2)
(IEC 62386-203:2009)**

Interface d'éclairage
adressable numérique -
Partie 203: Exigences particulières
pour les appareillages de commande -
Lampes à décharge
(à l'exclusion des lampes fluorescentes)
(dispositif de type 2)
(CEI 62386-203:2009)

Digital adressierbare Schnittstelle
für die Beleuchtung -
Teil 203: Besondere Anforderungen
an Betriebsgeräte -
Entladungslampen
(ausgenommen Leuchtstofflampen)
(Gerätetyp 2)
(IEC 62386-203:2009)

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/875/FDIS, future edition 1 of IEC 62386-203, 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 62386-203 on 2009-07-01.

This Part 203 is to be used in conjunction with EN 62386-101 and EN 62386-102, which contain general requirements for the relevant product type (control gear or control devices).

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.

Endorsement notice

The text of the International Standard IEC 62386-203:2009 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 60929 | NOTE | Harmonized as EN 60929:2006 (not modified). |
| IEC 61347-1 | NOTE | Harmonized as EN 61347-1:2008 (modified). |
| IEC 61347-2-3 | NOTE | Harmonized as EN 61347-2-3:2001 (not modified). |
| IEC 61547 | NOTE | Harmonized as EN 61547:2009 (not modified). |
| IEC 62034 | NOTE | Harmonized as EN 62034:2006 (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 62386-101 | 2009 | Digital addressable lighting interface - Part 101: General requirements - System | EN 62386-101 | 2009 |
| IEC 62386-102 | 2009 | Digital addressable lighting interface - Part 102: General requirements - Control gear | EN 62386-102 | 2009 |

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INTRODUCTION

This first edition of IEC 62386-203 is published in conjunction with IEC 62386-101 and IEC 62386-102. 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 recognised.

This International Standard, and the other parts that make up the IEC 62386-200 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 which make up the IEC 62386-200 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 or IEC 62386-102 are referred to in this International Standard by the sentence "The requirements of IEC 62386-1XX, clause 'n' apply", this sentence is to be interpreted as meaning that all requirements of the clause in question of Part 101 or Part 102 apply, except any which are clearly inapplicable to the specific type of lamp control gear covered by Part 203.

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'.

DIGITAL ADDRESSABLE LIGHTING INTERFACE –

Part 203: Particular requirements for control gear – Discharge lamps (excluding fluorescent lamps) (device type 2)

1 Scope

This International Standard specifies a protocol and test procedures for the control of electronic control gear by digital signals used on a.c. or d.c. supplies, associated with discharge lamps (excluding fluorescent lamps).

NOTE Tests in this standard are type tests. Requirements for testing individual control gear during production are not included.

2 Normative references

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.

IEC 62386-101:2009, *Digital addressable lighting interface – Part 101: General requirements; System*

IEC 62386-102:2009, *Digital addressable lighting interface – Part 102: General requirements – Control gear*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in Clause 3 of IEC 62386-101:2009 and Clause 3 of IEC 62386-102:2009 apply, with the following additional terms and definitions.

3.1

lamp cycling

periodic igniting and extinguishing of the lamp

3.2

lamp failure

lamp parameter outside of the tolerances for the normal lamp operation

NOTE The number of attempts to ignite the lamp parameter before final switching off is control gear dependent.

3.3

run-up time

time which the system of control gear and lamp(s) needs to set the lamp output power to its nominal lamp power value after switching on the lamp

3.4

waiting for ignition

control gear status with ignition function maximal up to the ignition time out without lamp ignition