



NSAI
Standards

Irish Standard
I.S. EN 62386-304:2017

Digital addressable lighting interface - Part 304: Particular requirements - Input devices - Light sensor

I.S. EN 62386-304:2017

Incorporating amendments/corrigenda/National Annexes issued since publication:

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National Foreword

I.S. EN 62386-304:2017 is the adopted Irish version of the European Document EN 62386-304:2017, Digital addressable lighting interface - Part 304: Particular requirements - Input devices - Light sensor

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EUROPEAN STANDARD

EN 62386-304

NORME EUROPÉENNE

EUROPÄISCHE NORM

September 2017

ICS 29.140.50; 29.140.99

English Version

**Digital addressable lighting interface -
Part 304: Particular requirements - Input devices -
Light sensor
(IEC 62386-304:2017)**

Interface d'éclairage adressable numérique -
Partie 304: Exigences particulières - Dispositifs d'entrée -
Capteur de luminosité
(IEC 62386-304:2017)

Digital adressierbare Schnittstelle für die Beleuchtung -
Teil 304: Besondere Anforderungen - Eingabegeräte -
Lichtsensor
(IEC 62386-304:2017)

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Europäisches Komitee für Elektrotechnische Normung

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

EN 62386-304:2017

European foreword

The text of document 34C/1314/FDIS, future edition 1 of IEC 62386-304, prepared by SC 34C "Auxiliaries for lamps", of IEC/TC 34 "Lamps and related equipment" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62386-304:2017.

The following dates are fixed:

- latest date by which the document has to be implemented at (dop) 2018-03-23
national level by publication of an identical national
standard or by endorsement
- latest date by which the national standards conflicting with (dow) 2020-06-23
the document have to be withdrawn

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The text of the International Standard IEC 62386-304:2017 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 61347	NOTE	Harmonized in EN 61347 series.
IEC 61347-1	NOTE	Harmonized as EN 61347-1.

Annex ZA

(normative)

Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 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>	<u>EN/HD</u>	<u>Year</u>
IEC 62386-101	2014	Digital addressable lighting interface -	EN 62386-101	2014
+ A1	— ¹⁾	Part 101: General requirements - System components	-	-
IEC 62386-103	2014	Digital addressable lighting interface -	EN 62386-103	2014
+ A1	— ²⁾	Part 103: General requirements - Control devices	-	-
IEC 62386-333	— ³⁾	Digital addressable lighting interface - Part 333: Particular requirements for control devices - Manual configuration (feature type 33)	EN 62386-333	— ⁴⁾

1) Under preparation. Stage at the time of publication: IEC ACDV 62386-101/AMD1:2017.

2) Under preparation. Stage at the time of publication: IEC ACDV 62386-103/AMD1:2017.

3) Under preparation. Stage at the time of publication: IEC CCDV 62386-333:2017.

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Edition 1.0 2017-05

INTERNATIONAL STANDARD

NORME INTERNATIONALE



**Digital addressable lighting interface –
Part 304: Particular requirements – Input devices – Light sensor**

**Interface d'éclairage adressable numérique –
Partie 304: Exigences particulières – Dispositifs d'entrée – Capteur de
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IEC 62386-304

Edition 1.0 2017-05

INTERNATIONAL STANDARD

NORME INTERNATIONALE



**Digital addressable lighting interface –
Part 304: Particular requirements – Input devices – Light sensor**

**Interface d'éclairage adressable numérique –
Partie 304: Exigences particulières – Dispositifs d'entrée – Capteur de
luminosité**

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DIGITAL ADDRESSABLE LIGHTING INTERFACE –**Part 304: Particular requirements – Input devices –
Light sensor****FOREWORD**

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International Standard IEC 62386-304 has been prepared by subcommittee 34C: Auxiliaries for lamps, of IEC technical committee 34: Lamps and related equipment.

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

FDIS	Report on voting
34C/1314/FDIS	34C/1334/RVD

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

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

This Part 304 of IEC 62386 is intended to be used in conjunction with:

- Part 101, which contains general requirements for system components;
- Part 103, which contains general requirements for control devices.

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

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific document. At this date, the document will be

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INTRODUCTION

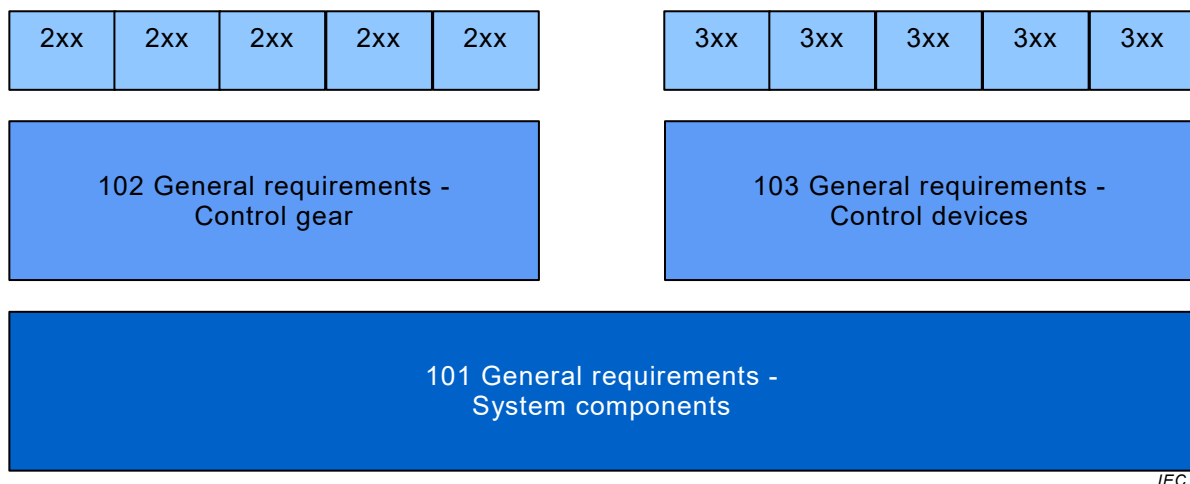
IEC 62386 contains several parts, referred to as series. The 1xx series includes the basic specifications. Part 101 contains general requirements for system components, Part 102 extends this information with general requirements for control gear and Part 103 extends it further with general requirements for control devices.

The 2xx parts extend the general requirements for control gear with lamp specific extensions (mainly for backward compatibility with Edition 1 of IEC 62386) and with control gear specific features.

The 3xx parts extend the general requirements for control devices with input device specific extensions describing the instance types as well as some common features that can be combined with multiple instance types.

This first edition of IEC 62386-304 is intended to be used in conjunction with IEC 62386-101:2014, IEC 62386-101:2014/AMD1:—, IEC 62386-103:2014 and IEC 62386-103:2014/AMD1:—. 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.

The setup of the standards is graphically represented in Figure 1 below.



IEC

Figure 1 – IEC 62386 graphical overview

This document, and the other parts that make up the IEC 62386-300 series, in referring to any of the clauses of IEC 62386-1XX, specifies 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.

Where the requirements of any of the clauses of IEC 62386-1XX are referred to in this document 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 1XX apply, except any which are clearly inapplicable.

The standardization of the control interface for control devices is intended to achieve compatible co-existence and multi-master operation between electronic control gear and lighting control devices, below the level of building management systems. This document describes a method of implementing light sensors.

All numbers used in this document 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”.

The following typographic expressions are used:

Variables: “*variableName*” or “*variableName[3:0]*”, giving only bits 3 to 0 of “*variableName*”.

Time value is expressed in minutes and seconds: mm:ss

Range of values: [lowest, highest]

Command: “COMMAND NAME”

DIGITAL ADDRESSABLE LIGHTING INTERFACE –

Part 304: Particular requirements – Input devices – Light sensor

1 Scope

This part of IEC 62386 specifies a bus system for control by digital signals of electronic lighting equipment which is in line with the requirements of IEC 61347, with the addition of DC supplies.

This document is only applicable to IEC 62386-103:2014 and IEC 62386-103:2014/AMD1:— input devices that deliver illuminance level information to the lighting control system through light level sensing.

NOTE Requirements for testing individual products during production are not included.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 62386-101:2014, *Digital addressable lighting interface – Part 101: General requirements – System components*

IEC 62386-101:2014/AMD1:—¹

IEC 62386-103:2014, *Digital addressable lighting interface – Part 103: General requirements – Control devices*

IEC 62386-103:2014/AMD1:—²

IEC 62386-333:—³, *Digital addressable lighting interface – Part 333: Particular requirements for control devices – Manual configuration (feature type 33)*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 62386-101 and IEC 62386-103 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

¹ Under preparation. Stage at the time of publication: IEC ACDV 62386-101/AMD1:2017.

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³ Under preparation. Stage at the time of publication: IEC CCDV 62386-333:2017.

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