

<b>STN</b>	<b>Digitálne adresovateľné rozhranie osvetlenia Časť 207: Osobitné požiadavky na ovládacie zariadenia LED moduly (zariadenie typu 6)</b>	<b>STN EN IEC 62386-207</b>  36 0597
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Digital addressable lighting interface - Part 207: Particular requirements for control gear - LED modules (device type 6)

Táto norma obsahuje anglickú verziu európskej normy.  
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 12/18

Obsahuje: EN IEC 62386-207:2018, IEC 62386-207:2018

Oznámením tejto normy sa od 17.05.2021 ruší  
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**EN IEC 62386-207**

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 2018

ICS 29.140.50; 29.140.99

Supersedes EN 62386-207:2009

English Version

**Digital addressable lighting interface - Part 207: Particular requirements for control gear - LED modules (device type 6) (IEC 62386-207:2018)**

Interface d'éclairage adressable numérique - Partie 207:  
Exigences particulières pour les appareillages de  
commande - Modules de LED (dispositifs de type 6)  
(IEC 62386-207:2018)

Digital adressierbare Schnittstelle für die Beleuchtung - Teil  
207: Besondere Anforderungen an Betriebsgeräte - LED-  
Module (Gerätetyp 6)  
(IEC 62386-207:2018)

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Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

**EN IEC 62386-207:2018 (E)****European foreword**

The text of document 34/483/FDIS, future edition 2 of IEC 62386-207, prepared by IEC/TC 34 "Lamps and related equipment" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 62386-207:2018.

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) 2019-02-17
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2021-05-17

This document supersedes EN 62386-207:2009.

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

IEC 61347 (series)	NOTE	Harmonized as 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 Where 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 62386-101	2014	Digital addressable lighting interface - Part 101: General requirements - System components	EN 62386-101	2014
+ A1 <sup>1</sup>	-		+ A1 <sup>2</sup>	-
IEC 62386-102	2014	Digital addressable lighting interface - Part 102: General requirements - Control gear	EN 62386-102	2014
+ A1 <sup>3</sup>	-		+ A1 <sup>4</sup>	-
IEC 62386-216 <sup>5</sup>	-	Digital addressable lighting interface – Part 216: Particular requirements for control gear – Load referencing (device type 15)	EN 62386-216 <sup>6</sup>	-
IEC 62386-217	2018	Digital addressable lighting interface – Part 217: Particular requirements for control gear – Thermal gear protection (device type 16)	EN IEC 62386-217	2018
IEC 62386-218	2018	Digital addressable lighting interface – Part 218: Particular requirements for control gear – Dimming curve selection (device type 17)	EN IEC 62386-218	2018
IEC 62386-222	2018	Digital addressable lighting interface – Part 222: Particular requirements for control gear – Thermal lamp protection (device type 21)	EN IEC 62386-222	2018
IEC 62386-224	2018	Digital addressable lighting interface – Part 224: Particular requirements for control gear – Non-replaceable light source (device type 23)	EN IEC 62386-224	2018

<sup>1</sup> Under preparation. Stage at the time of publication: IEC TPUB 62386-101/AMD1:2018.

<sup>2</sup> Under preparation. Stage at the time of publication: EN 62386-101:2014/prA1:2017.

<sup>3</sup> Under preparation. Stage at the time of publication: IEC TFDIS 62386-102/AMD1:2018.

<sup>4</sup> Under preparation. Stage at the time of publication: EN 62386-102:2014/prA1:2017.

<sup>5</sup> Under preparation. Stage at the time of publication: IEC BPUB 62386-216:2018.

<sup>6</sup> Under preparation. Stage at the time of publication: FprEN 62386-216:2018.



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# INTERNATIONAL STANDARD

# NORME INTERNATIONALE



**Digital addressable lighting interface –  
Part 207: Particular requirements for control gear – LED modules (device type 6)**

**Interface d'éclairage adressable numérique –  
Partie 207: Exigences particulières pour les appareillages de commande –  
Modules de LED (dispositifs de type 6)**



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IEC 62386-207

Edition 2.0 2018-04

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE



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**Digital addressable lighting interface –  
Part 207: Particular requirements for control gear – LED modules (device type 6)**

**Interface d'éclairage adressable numérique –  
Partie 207: Exigences particulières pour les appareillages de commande –  
Modules de LED (dispositifs de type 6)**

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**DIGITAL ADDRESSABLE LIGHTING INTERFACE –****Part 207: Particular requirements for control gear –  
LED modules (device type 6)**

## FOREWORD

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International Standard IEC 62386-207 has been prepared by IEC technical committee 34: Lamps and related equipment.

This second edition cancels and replaces the first edition published in 2009. This edition constitutes a technical revision.

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

- a) fast fade time has been redefined;
- b) short circuit and open circuit have been deleted;
- c) physical selection has been deleted;
- d) dimming curve selection has been moved to a separate part;

- e) load increase, load decrease and reference measurement have been moved to a separate part;
- f) thermal gear and lamp protection have been moved to separate parts;
- g) LED module integrated has been moved to a separate part;
- h) link to IEC 62386-102 error bits has been clarified;
- i) the following commands have been deleted:
  - ENABLE CURRENT PROTECTOR
  - DISABLE CURRENT PROTECTOR
  - QUERY POSSIBLE OPERATING MODES
  - QUERY SHORT CIRCUIT
  - QUERY OPEN CIRCUIT
  - QUERY CURRENT PROTECTOR ACTIVE
  - QUERY CURRENT PROTECTOR ENABLED
  - QUERY OPERATING MODE

The text of this International Standard is based on the following documents:

FDIS	Report on voting
34/483/FDIS	34/504/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 207 of IEC 62386 is intended to be used in conjunction with:

- Part 101, which contains general requirements for system components;
- Part 102, which contains general requirements for control gear.

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

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

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## INTRODUCTION

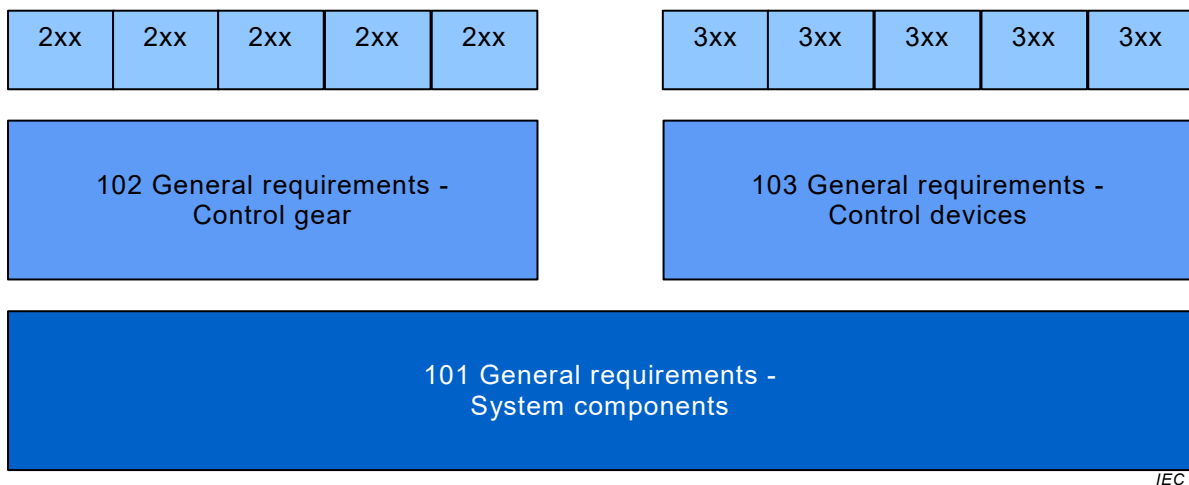
IEC 62386 contains several parts, referred to as series. The 1xx series includes the basic specifications. Part 101 contains general requirements for system components, Part 102 extends this information with general requirements for control gear and Part 103 extends it further with general requirements 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 second edition of IEC 62386-207 is intended to be used in conjunction with IEC 62386-101:2014, IEC 62386-101:2014/AMD1:—, IEC 62386-102:2014 and IEC 62386-102:2014/AMD1:—, and with the various parts that make up the IEC 62386-2xx series for control gear. The division 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.



**Figure 1 – IEC 62386 graphical overview**

This document, and the other parts that make up the IEC 62386-200 series, in referring to any of the clauses of IEC 62386-1XX, specifies the extent to which such a clause is applicable; 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 gear is intended to achieve compatible co-existence between electronic control gear and lighting control devices, below the level of building management systems. This document describes a method of implementing control gear.

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*

Range of values: [lowest, highest]

Command: "COMMAND NAME"

## DIGITAL ADDRESSABLE LIGHTING INTERFACE –

### Part 207: Particular requirements for control gear – LED modules (device type 6)

#### 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 (all parts), with the addition of DC supplies.

This document is only applicable to IEC 62386-102:2014 and IEC 62386-102:2014/AMD1:— control gear associated with LED modules.

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:—<sup>1</sup>

IEC 62386-102:2014, *Digital addressable lighting interface – Part 102: General requirements – Control gear*  
IEC 62386-102:2014/AMD1:—<sup>2</sup>

IEC 62386-216:—<sup>3</sup>, *Digital addressable lighting interface – Part 216: Particular requirements for control gear – Load referencing (device type 15)*

IEC 62386-217:2018, *Digital addressable lighting interface – Part 217: Particular requirements for control gear – Thermal gear protection (device type 16)*

IEC 62386-218:2018, *Digital addressable lighting interface – Part 218: Particular requirements for control gear – Dimming curve selection (device type 17)*

IEC 62386-222:2018, *Digital addressable lighting interface – Part 222: Particular requirements for control gear – Thermal lamp protection (device type 21)*

IEC 62386-224:2018, *Digital addressable lighting interface – Part 224: Particular requirements for control gear – Non-replaceable light source (device type 23)*

**koniec náhľadu – text ďalej pokračuje v platenej verzii STN**

<sup>1</sup> Under preparation. Stage at the time of publication: IEC TPUB 62386-101/AMD1:2018.

<sup>2</sup> Under preparation. Stage at the time of publication: IEC TFDIS 62386-102/AMD1:2018.

<sup>3</sup> Under preparation. Stage at the time of publication: IEC BPUB 62386-216:2018.