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**Digitalni naslovljivi vmesnik za razsvetljavo - 202. del: Posebne zahteve za krmilja  
- Avtonomna zasilna razsvetljava (naprava tipa 1) (IEC 62386-202:2022)**

Digital addressable lighting interface - Part 202: Particular requirements for control gear -  
Self-contained emergency lighting (device type 1) (IEC 62386-202:2022)

Digital adressierbare Schnittstelle für die Beleuchtung - Teil 202: Besondere  
Anforderungen an Betriebsgeräte - Notbeleuchtung mit Einzelbatterie (Gerätetyp 1) (IEC  
62386-202:2022)

Interface d'éclairage adressable numérique - Partie 202: Exigences particulières pour les  
appareillages de commande - Blocs autonomes d'éclairage de secours (dispositifs de  
type 1) (IEC 62386-202:2022)

**Ta slovenski standard je istoveten z: EN IEC 62386-202:2023**

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**ICS:**

29.140.50	Instalacijski sistemi za razsvetljavo	Lighting installation systems
35.200	Vmesniška in povezovalna oprema	Interface and interconnection equipment

**SIST EN IEC 62386-202:2023** en



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Digital addressable lighting interface - Part 202: Particular requirements for control gear - Self-contained emergency lighting (device type 1)  
(IEC 62386-202:2022)

Interface d'éclairage adressable numérique - Partie 202:  
Exigences particulières pour les appareillages de  
commande - Blocs autonomes d'éclairage de secours  
(dispositifs de type 1)  
(IEC 62386-202:2022)

Digital adressierbare Schnittstelle für die Beleuchtung - Teil  
202: Besondere Anforderungen an Betriebsgeräte -  
Notbeleuchtung mit Einzelbatterie (Gerätetyp 1)  
(IEC 62386-202:2022)

This European Standard was approved by CENELEC on 2023-01-19. 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.

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

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**EN IEC 62386-202:2023 (E)****European foreword**

The text of document 34/986/FDIS, future edition 2 of IEC 62386-202, prepared by IEC/TC 34 "Lighting" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 62386-202:2023.

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) 2023-10-19
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2026-01-19

This document supersedes EN 62386-202:2009 and all of its amendments and corrigenda (if any).

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**Endorsement notice**

The text of the International Standard IEC 62386-202:2022 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 standard indicated:

IEC 60598-2-22:2021	NOTE	Approved as EN IEC 60598-2-22:2022 (not modified)
IEC 61347-1:2015	NOTE	Approved as EN 61347-1:2015 (not modified)
IEC 61347-2-7:2011	NOTE	Approved as EN 61347-2-7:2012 (not modified)
IEC 62034:2012	NOTE	Approved as EN 62034:2012 (not modified)
IEC 62386-220	NOTE	Approved as EN IEC 62386-220

## 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	2022	Digital addressable lighting interface - Part 101: General requirements - System components	EN IEC 62386-101	2022
IEC 62386-102	2022	Digital addressable lighting interface - Part 102: General requirements - Control gear	EN IEC 62386-102	2022

[SIST EN IEC 62386-202:2023](https://standards.iteh.ai/catalog/standards/sist/04ed3947-9fee-42e7-bea8-7244a23573d9/sist-en-iec-62386-202-2023)

<https://standards.iteh.ai/catalog/standards/sist/04ed3947-9fee-42e7-bea8-7244a23573d9/sist-en-iec-62386-202-2023>





IEC 62386-202

Edition 2.0 2022-12

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE



**Digital addressable lighting interface –  
Part 202: Particular requirements for control gear – Self-contained emergency  
lighting (device type 1)**

**Interface d'éclairage adressable numérique –  
Partie 202: Exigences particulières pour les appareillages de commande –  
Blocs autonomes d'éclairage de secours (dispositifs de type 1)**

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**DIGITAL ADDRESSABLE LIGHTING INTERFACE –****Part 202: Particular requirements for control gear –  
Self-contained emergency lighting (device type 1)**

## FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of 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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IEC 62386-202 has been prepared by IEC technical committee 34: Lighting. It is an International Standard.

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) scope updated,
- b) hardwired switch operation can be disabled,
- c) installation inhibit feature added,
- d) memory bank added,
- e) modes of operation clarified, with some changes and additions,
- f) command added to enter extended emergency mode,

g) command added to extend time in duration test mode.

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

Draft	Report on voting
34/986/FDIS	34/1000/RVD

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

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at [www.iec.ch/members\\_experts/refdocs](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/standardsdev/publications](http://www.iec.ch/standardsdev/publications).

This Part 202 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 [webstore.iec.ch](http://webstore.iec.ch) in the data related to the specific document. At this date, the document will be

- reconfirmed, [//standards.iteh.ai/catalog/standards/sist/04ed3947-9fee-42e7-bea8-7244a23573d9/sist-en-iec-62386-202-2023](http://standards.iteh.ai/catalog/standards/sist/04ed3947-9fee-42e7-bea8-7244a23573d9/sist-en-iec-62386-202-2023)
- withdrawn,
- replaced by a revised edition, or
- amended.

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## INTRODUCTION

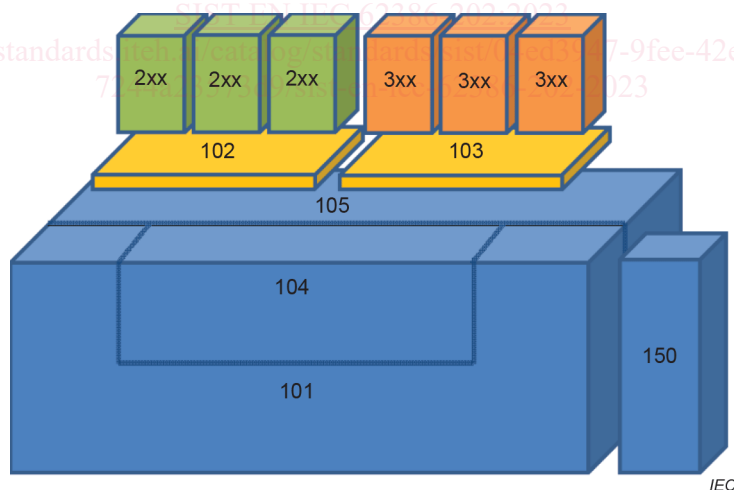
IEC 62386 contains several parts, referred to as series. The IEC 62386 series specifies a bus system for control by digital signals of electronic lighting equipment. The IEC 62386-1xx series includes the basic specifications. Part 101 contains general requirements for system components, Part 102 extends this information with general requirements for control gear and Part 103 extends it further with general requirements for control devices. Part 104 and Part 105 can be applied to control gear or control devices. Part 104 gives requirements for wireless and alternative wired system components. Part 105 describes firmware transfer. Part 150 gives requirements for an auxiliary power supply which can be stand-alone, or built into control gear or control devices.

The IEC 62386-2xx series extends 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 IEC 62386-3xx series extends 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 62386-202 is intended to be used in conjunction with IEC 62386-101 and IEC 62386-102 and with the various parts that make up the IEC 62386-2xx series for control gear, and can be used together with IEC 62386-103 and the various parts that make up the IEC 62386-3xx series of particular requirements for control devices. 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 recognised.

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



**Figure 1 – IEC 62386 graphical overview**

When this part of IEC 62386 refers to any of the clauses of the IEC 62386-1xx series, the extent to which such a clause is applicable is specified. The other parts also include additional requirements, as necessary.

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 and "x" in binary numbers means "don't care". Where a variable is referred by a bit number, bit 0 is the least significant bit.

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".

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## DIGITAL ADDRESSABLE LIGHTING INTERFACE –

### Part 202: Particular requirements for control gear – Self-contained emergency lighting (device type 1)

#### 1 Scope

This part of IEC 62386 is applicable to control gear for control by digital signals of electronic lighting equipment which is associated with self-contained emergency lighting as described in IEC 61347-2-7 with additional control interface for configuring emergency operation.

This document is only applicable to control gear complying with IEC 62386-102.

This document does not apply to centrally supplied emergency lighting control gear, which is specified in IEC 62386-220.

#### 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 62386-101:2022, *Digital addressable lighting interface – Part 101: General requirements – System components*

IEC 62386-102:2022, *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 IEC 62386-101 and IEC 62386-102 and the following apply.

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

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

##### 3.1

##### **battery cut-off**

mode of operation in which the normal supply is disconnected and the battery voltage is below the battery cut-off voltage

Note 1 to entry: Reaching this point can trigger the device to protect against extensive discharge as defined in IEC 61347-2-7:2011, 3.4 and IEC 61347-2-7:2011/AMD2:2021, 3.4.

##### 3.2

##### **battery cut-off voltage**

battery voltage, below which the battery can no longer power the control gear or lamp(s)