
Digitalni naslovljivi vmesnik za razsvetljavo - 253. del: Posebne zahteve - Diagnostika in vzdrževanje (naprava tipa 52) (IEC 62386-253:2023)

Digital addressable lighting interface - Part 253: Particular requirements - Diagnostics and maintenance (Device Type 52) (IEC 62386-253:2023)

Digital adressierbare Schnittstelle für die Beleuchtung - Teil 253: Besondere Anforderungen - Diagnose und Wartung (Gerätetyp 52) (IEC 62386-253:2023)

Interface d'éclairage adressable numérique - Partie 253: Exigences particulières - Diagnostic et maintenance (type de dispositif 52) (IEC 62386-253:2023)

Ta slovenski standard je istoveten z: EN IEC 62386-253:2023

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

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NORME EUROPÉENNE

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May 2023

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Digital addressable lighting interface - Part 253: Particular requirements - Diagnostics and maintenance (device type 52)
(IEC 62386-253:2023)

Interface d'éclairage adressable numérique - Partie 253:
Exigences particulières - Diagnostic et maintenance (type
de dispositif 52)
(IEC 62386-253:2023)

Digital adressierbare Schnittstelle für die Beleuchtung - Teil
253: Besondere Anforderungen - Diagnose und Wartung
(Gerätetyp 52)
(IEC 62386-253:2023)

This European Standard was approved by CENELEC on 2023-05-19. 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

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

EN IEC 62386-253:2023 (E)**European foreword**

The text of document 34/1021/FDIS, future edition 1 of IEC 62386-253, prepared by IEC/TC 34 "Lighting" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 62386-253:2023.

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) 2024-02-19
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2026-05-19

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This document is read in conjunction with EN IEC 62386-101 and EN IEC 62386-102.

Any feedback and questions on this document should be directed to the users' national committee. A complete listing of these bodies can be found on the CENELEC website.

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Endorsement notice
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The text of the International Standard IEC 62386-253:2023 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 62386-217 NOTE Approved as EN IEC 62386-217

IEC 62386-222 NOTE Approved as EN IEC 62386-222

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.cencenelec.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 |
| IEC 62722-2-1 | 2023 | Luminaire performance - Part 2-1: Particular requirements - LED luminaires | EN IEC 62722-2-1 | 2023 |

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IEC 62386-253

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INTERNATIONAL STANDARD

NORME INTERNATIONALE



**Digital addressable lighting interface –
Part 253: Particular requirements – Diagnostics and maintenance (device
type 52)**

**Interface d'éclairage adressable numérique –
Partie 253: Exigences particulières – Diagnostic et maintenance (type de
dispositif 52)**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

DIGITAL ADDRESSABLE LIGHTING INTERFACE –**Part 253: Particular requirements –
Diagnostics and maintenance (device type 52)**

FOREWORD

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IEC 62386-253 has been prepared by IEC technical committee 34: Lighting. It is an International Standard.

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

| | |
|--------------|------------------|
| Draft | Report on voting |
| 34/1021/FDIS | 34/1042/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. The main document types developed by IEC are described in greater detail at www.iec.ch/standardsdev/publications.

This Part 253 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 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 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 first edition of IEC 62386-253 is intended to be used in conjunction with IEC 62386-101:2022 and IEC 62386-102:2022. 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.

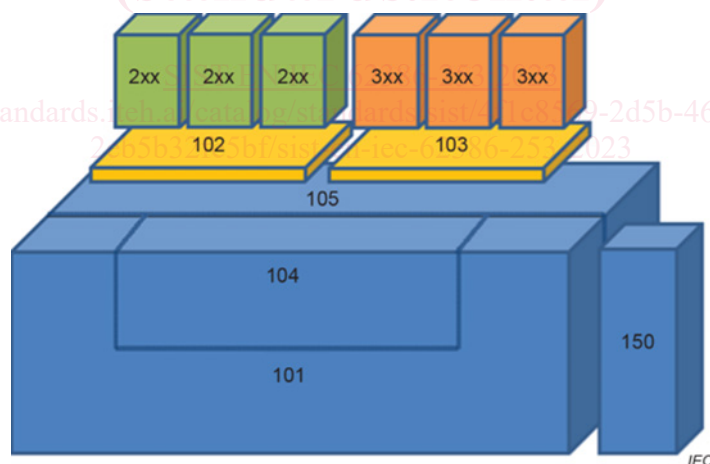


Figure 1 – IEC 62386 graphical overview

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; "x" in binary numbers means "don't care".