

STN	Digitálne adresovateľné rozhranie osvetlenia Časť 351: Osobitné požiadavky Riadiace zariadenia Riadiace zariadenia namontované na svietidlách	STN EN IEC 62386-351 36 0597
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Digital addressable lighting interface - Part 351: Particular requirements - Control devices - Luminaire-mounted control devices

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. 11/25

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EUROPEAN STANDARD

EN IEC 62386-351

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2025

ICS 29.140.50; 29.140.99

English Version

Digital addressable lighting interface - Part 351: Particular requirements - Control devices - Luminaire-mounted control devices
(IEC 62386-351:2025)

Interface d'éclairage adressable numérique - Partie 351:
Exigences particulières - Dispositifs de commande -
Dispositifs de commande montés sur un luminaire
(IEC 62386-351:2025)

Digital adressierbare Schnittstelle für die Beleuchtung - Teil
351: Besondere Anforderungen - Steuergeräte - Leuchten-
montierte Steuergeräte
(IEC 62386-351:2025)

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Europäisches Komitee für Elektrotechnische Normung

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EN IEC 62386-351:2025 (E)**European foreword**

The text of document 34/1294/CDV, future edition 1 of IEC 62386-351, prepared by TC 34 "Lighting" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 62386-351:2025.

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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.

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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 62386-103	2022	Digital addressable lighting interface - Part 103: General requirements - Control devices	EN IEC 62386-103	2022
IEC 62386-150	2023	Digital addressable lighting interface - Part 150: Particular requirements - Auxiliary power supply	EN IEC 62386-150	2023



IEC 62386-351

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INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Digital addressable lighting interface-
Part 351: Particular requirements - Control devices - Luminaire-mounted control
devices**

**Interface d'éclairage adressable numérique -
Partie 351: Exigences particulières - Dispositifs de commande - Dispositifs de
commande montés sur un luminaire**



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**Digital addressable lighting interface -
Part 351: Particular requirements –
Control devices –
Luminaire-mounted control devices**

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

Draft	Report on voting
34/1294/CDV	34/1324/RVC

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.

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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/publications.

This document is intended to be used in conjunction with:

- IEC 62386-101, which contains general requirements for system components; and
- IEC 62386-103, 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 webstore.iec.ch in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn, or
- revised.

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INTRODUCTION

The IEC 62386 series specifies a bus system for control by digital signals of electronic lighting equipment and contains several parts, referred to as a series. The IEC 62386-1xx series includes the basic specifications. IEC 62386-101 contains general requirements for system components, IEC 62386-102 extends this information with general requirements for control gear and IEC 62386-103 extends it further with general requirements for control devices. IEC 62386-104 gives requirements for wireless and alternative wired system components. IEC 62386-105 describes firmware transfer. IEC 62386-150 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 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 application controllers and instance types.

This document is intended to be used in conjunction with IEC 62386-101 and IEC 62386-103 and with 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 recognized.

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

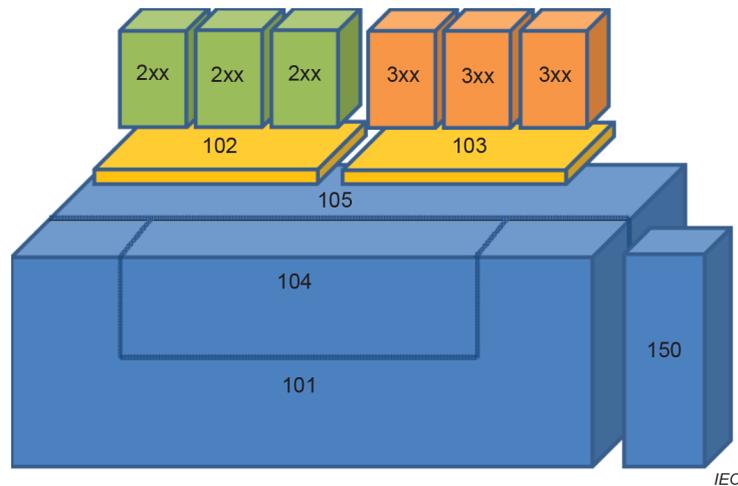


Figure 1 – IEC 62386 graphical overview

When this document 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 specified. 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". Where a variable is referred by a bit number, bit 0 is the least significant bit.

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In this document, 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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1 Scope

This part of IEC 62386 is applicable to control devices to be used in, on, or attached to, a luminaire. This document builds on the digital addressable lighting interface as specified in the IEC 62386 series of standards, by adding specific requirements for power consumption, integrated bus and AUX power supplies, a mechanism to arbitrate between multiple application controllers, and a memory bank definition for multi-master devices.

This document is only applicable to control devices complying with IEC 62386-103.

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 62386-103:2022, *Digital addressable lighting interface - Part 103: General requirements - Control devices*

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