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Responsible committee: CPL/34/3 Auxiliaries for lamps

Interested committees:

Title: BS EN IEC 62386-225 Digital addressable lighting interface

Part 225: Particular requirements for control gear - Adaptive escape lighting (device type 24)

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Introduction

This draft standard is based on national and international discussions. Your comments on this draft are invited and will assist in the preparation of the consequent standard.

For international standards, comments will be reviewed by the relevant UK national committee before sending the consensus UK vote and comments to the international committee, which will then decide appropriate action. If the international standard is approved, it is usual for the text to be published as a British Standard.

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UK Vote

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Submission of Comments

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Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx
------------------	------------------------

1	2	(3)	4	5	(6)	7
MB	Clause No./ Subclause No./Annex (e.g. 3.1)	Paragraph/Figure/ Table/Note	Type of comment	Commend (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	



34/1216/CD

COMMITTEE DRAFT (CD)

PROJECT NUMBER:

IEC 62386-225 ED1

DATE OF CIRCULATION:

2024-08-02

CLOSING DATE FOR COMMENTS:

2024-10-25

SUPERSEDES DOCUMENTS:

34/1199/NP, 34/1210/RVN

IEC TC 34 : LIGHTING

SECRETARIAT:

United Kingdom

SECRETARY:

Mr Petar Luzajic

OF INTEREST TO THE FOLLOWING COMMITTEES:

HORIZONTAL FUNCTION(S):

ASPECTS CONCERNED:

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Recipients of this document are invited to submit, with their comments, notification of any local regulations or technical reasons that may exist and should be considered should this proposal proceed, recognizing that failure to address such requirements could result in the need for new or existing "In Some Countries" clauses. (SEE [AC/22/2007](#) OR [NEW GUIDANCE DOC](#)).

TITLE:

Digital addressable lighting interface - Part 225: Particular requirements for control gear - Adaptive escape lighting (device type 24)

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Link to Committee Draft (CD) online document:

<https://osd.iec.ch/#/editor/current/fda3a8f1-9ed5-45e8-bf3c-4e72795cbf23/en>

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Comment: ☐ No Comment at this stage ☐ Comments in

Reference materials

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- latest videos and presentations on the [OSD webpage](#), and
- step-by-step explanations on [Helpscout](#).

Contact

Should you require any assistance, please contact the OSD project team at osd_support@iec.ch.

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

DIGITAL ADDRESSABLE LIGHTING INTERFACE - PART 225: PARTICULAR REQUIREMENTS FOR CONTROL GEAR - ADAPTIVE ESCAPE LIGHTING (DEVICE TYPE 24) –

FOREWORD

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IEC 62386-225 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/XX/FDIS	34/XX/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 225 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.
- Part 202, which contains particular requirements for self-contained emergency lighting.
- Part 220, which contains particular requirements for centrally supplied emergency operation

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.

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 62386-225 is intended to be used in conjunction with IEC 62386-101:2022 and IEC 62386-102:2022 and IEC 62386-202:2022 or IEC 62386-220:2019. 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.

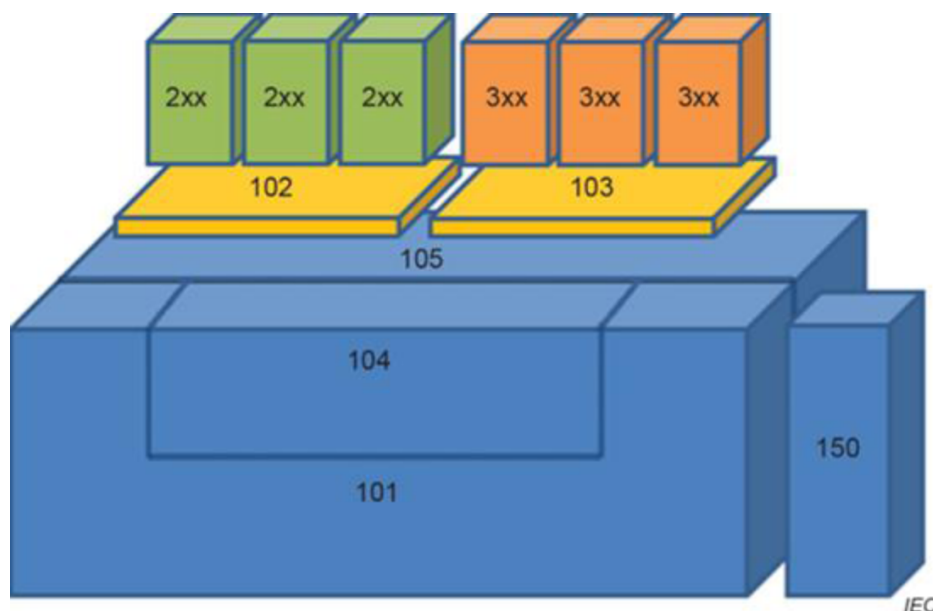


Figure 1 – IEC 62386 graphical overview

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".

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 225: PARTICULAR REQUIREMENTS FOR CONTROL GEAR - ADAPTIVE ESCAPE LIGHTING (DEVICE TYPE 24) –

1 Scope

This part of IEC 62386 is applicable to control gear for emergency lighting applications with additional functionality supporting adaptive emergency escape lighting. This document builds on the digital addressable lighting interface as specified in the IEC 62386 series

This document is only applicable to control gear complying with IEC 62386-102 and either IEC 62386-202 or 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*

IEC 62386-202:2022, *Digital addressable lighting interface - Part 202: Particular requirements - Self-contained emergency lighting*

IEC 62386-220:2019, *Digital addressable lighting interface - Part 220: Particular requirements - Centrally supplied emergency operation*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 62386-102 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>

3.1

adaptive emergency escape lighting system AEELS

electrically operated escape lighting system which provides directional guidance and adequate illuminance by means of a set of emergency lighting luminaires and directional indication that can manually or automatically change the escape route direction and improve the conspicuity of the emergency signage and optionally the lighting level on escape routes