

INTERNATIONAL STANDARD

NORME INTERNATIONALE



**Digital addressable lighting interface –
Part 332: Particular requirements – Input devices – Feedback**

**Interface d'éclairage adressable numérique –
Partie 332: Exigences particulières – Dispositifs d'entrée – Rétroaction**



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CONTENTS

FOREWORD.....	4
INTRODUCTION.....	6
1 Scope.....	8
2 Normative references	8
3 Terms and definitions	8
4 General	9
4.1 General.....	9
4.2 Version number	9
4.3 Insulation.....	9
5 Electrical specification.....	9
6 Interface power supply	9
7 Transmission protocol structure.....	9
8 Timing	9
9 Method of operation.....	10
9.1 General.....	10
9.2 Feature type	10
9.3 Feedback type	10
9.4 Feedback control	10
9.5 Feedback configuration.....	11
9.5.1 Feedback timing	11
9.5.2 Feedback brightness	12
9.5.3 Feedback colour.....	12
9.5.4 Feedback volume	13
9.5.5 Feedback pitch.....	13
9.5.6 Manual configuration	13
10 Declaration of variables.....	14
11 Definition of commands	14
11.1 General.....	14
11.2 Overview sheets	14
11.2.1 General	14
11.2.2 Standard commands.....	15
11.3 Feedback control commands.....	17
11.3.1 General	17
11.3.2 ACTIVATE FEEDBACK.....	17
11.3.3 STOP FEEDBACK.....	17
11.3.4 SELECT FEEDBACK (instanceGroup)	17
11.4 Feedback configuration commands	17
11.4.1 General	17
11.4.2 SET FEEDBACK TIMING (<i>DTR0</i>)	17
11.4.3 SET ACTIVE FEEDBACK COLOUR (<i>DTR0</i>)	17
11.4.4 SET ACTIVE FEEDBACK BRIGHTNESS (<i>DTR0</i>).....	17
11.4.5 SET INACTIVE FEEDBACK COLOUR (<i>DTR0</i>).....	17
11.4.6 SET INACTIVE FEEDBACK BRIGHTNESS (<i>DTR0</i>)	18
11.4.7 SET ACTIVE FEEDBACK VOLUME (<i>DTR0</i>)	18
11.4.8 SET ACTIVE FEEDBACK PITCH (<i>DTR0</i>)	18
11.5 Feedback queries	18

11.5.1	General	18
11.5.2	QUERY FEEDBACK CAPABILITY	18
11.5.3	QUERY FEEDBACK ACTIVE	18
11.5.4	QUERY FEEDBACK TIMING	18
11.5.5	QUERY ACTIVE FEEDBACK COLOUR	18
11.5.6	QUERY ACTIVE FEEDBACK BRIGHTNESS.....	18
11.5.7	QUERY INACTIVE FEEDBACK COLOUR.....	18
11.5.8	QUERY INACTIVE FEEDBACK BRIGHTNESS	19
11.5.9	QUERY ACTIVE FEEDBACK VOLUME.....	19
11.5.10	QUERY ACTIVE FEEDBACK PITCH.....	19
11.6	Special commands.....	19
Annex A	(informative) Feedback types.....	20
A.1	Examples of feedback types	20
A.2	Example of timed feedback	20
A.3	Example of continuous feedback.....	20
A.4	Example of feedback configuration	21
Figure 1	– IEC 62386 graphical overview	6
Figure A.1	– Example of timed feedback	20
Figure A.2	– Example of continuous feedback.....	21
Figure A.3	– Example of feedback configuration	21
Table 1	– “ <i>feedbackCapability</i> ” encoding	10
Table 2	– “ <i>feedbackTiming</i> ” encoding	11
Table 3	– Manually configurable variables	13
Table 4	– Declaration of additional variables of each of the features.....	14
Table 5	– Additional feedback commands	16
Table A.1	– Examples of feedback.....	20

INTERNATIONAL ELECTROTECHNICAL COMMISSION

DIGITAL ADDRESSABLE LIGHTING INTERFACE –**Part 332: Particular requirements –
Input devices – Feedback**

FOREWORD

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International Standard IEC 62386-332 has been prepared by IEC technical committee 34: Lamps and related equipment.

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

FDIS	Report on voting
34/430/FDIS	34/473/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.

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.

This Part 332 of IEC 62386 is to be used in conjunction with:

- IEC 62386-101, which contains general requirements for system components;
- IEC 62386-103, which contains general requirements for control devices.

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.

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

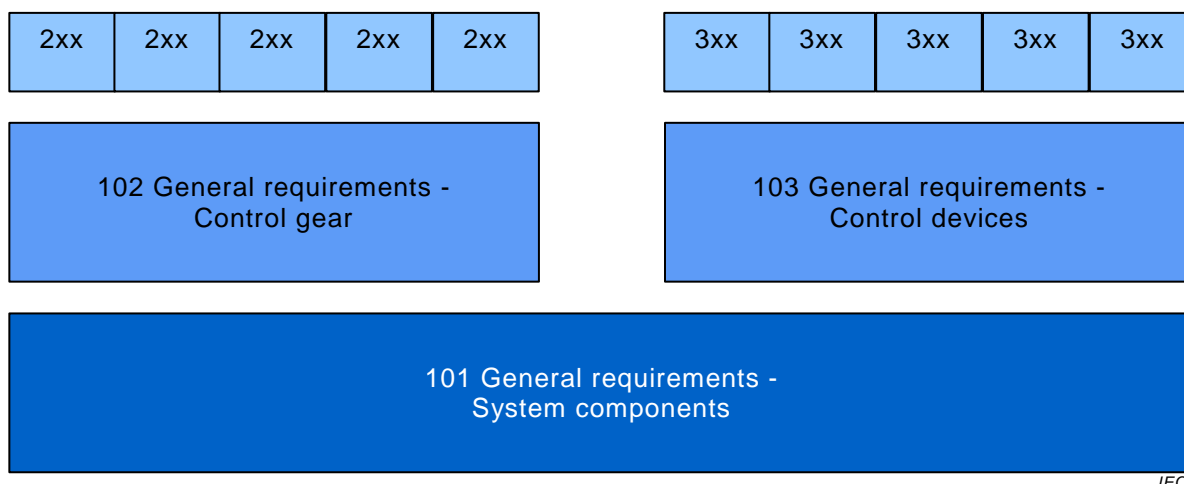


Figure 1 – IEC 62386 graphical overview

This first edition of IEC 62386-332 is intended to be used in conjunction with IEC 62386-101 and IEC 62386-103 and the parts for control gear IEC 62386-2XX as well as the parts for control devices IEC 62386-3XX. 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.

This document, and the other parts that make up IEC 62386, in referring to any of the clauses of IEC 62386-1XX, IEC 62386-2XX and IEC 62386-3XX, specifies the extent to which such a clause is applicable and the order in which the tests are to be performed; 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 devices is intended to achieve compatible co-existence and multi-master operation between electronic control gear and lighting control devices, below the level of building management systems. This document describes a method of implementing control devices.

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 332: Particular requirements – Input devices – Feedback

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.

This document is applicable to control devices supporting feedback functionality.

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 61347-1, *Lamp controlgear – Part 1: General and safety requirements*

IEC 62386-103:2014, *Digital addressable lighting interface – Part 103: General requirements – Control devices*
IEC 62386-103:2014/AMD1:—¹

IEC 62386-333², *Digital addressable lighting interface – Part 333: Particular requirements for controls devices – Manual configuration (feature type 33)*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 62386-103 and the following 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

feedback

means of informing the user about the system state

3.2

visible feedback

feedback using optical signals

¹ Under preparation. Stage at the time of publication: IEC TCDV 62386-103/AMD1:2017.

² Under preparation. Stage at the time of publication: IEC APUB 62386-333:2017.