

INTERNATIONAL STANDARD

NORME INTERNATIONALE



**Digital addressable lighting interface –
Part 301: Particular requirements – Input devices – Push buttons**

**Interface d'éclairage adressable numérique –
Partie 301: Exigences particulières – Dispositifs d'entrée – Boutons-poussoirs**



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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	10
8 Timing	10
9 Method of operation.....	10
9.1 General.....	10
9.2 Instance type	10
9.3 Input signal and value.....	10
9.4 Events	10
9.4.1 Priority use	10
9.4.2 Bus usage	10
9.4.3 Encoding	11
9.4.4 Untimed events.....	11
9.4.5 Timed events.....	12
9.4.6 Event configuration.....	14
9.4.7 Event generation	14
9.5 Configuring the input device.....	15
9.5.1 Setting the timers	15
9.5.2 Manual configuration	16
9.6 Exception handling.....	16
9.6.1 Button stuck	16
9.6.2 Manufacturer specific errors	16
9.6.3 Error value.....	16
10 Declaration of variables	17
11 Definition of commands	18
11.1 General.....	18
11.2 Overview sheets	18
11.2.1 General	18
11.2.2 Standard commands	18
11.3 Event messages	18
11.3.1 INPUT NOTIFICATION (<i>device/instance, event</i>).....	18
11.3.2 POWER NOTIFICATION (<i>device</i>)	18
11.4 Device control instructions	18
11.5 Device configuration instructions.....	18
11.6 Device queries	19
11.7 Instance control instructions	19
11.8 Instance configuration instructions.....	19

11.8.1	General	19
11.8.2	SET EVENT FILTER (<i>DTR0</i>)	19
11.8.3	SET SHORT TIMER (<i>DTR0</i>)	19
11.8.4	SET DOUBLE TIMER (<i>DTR0</i>)	19
11.8.5	SET REPEAT TIMER (<i>DTR0</i>)	19
11.8.6	SET STUCK TIMER (<i>DTR0</i>)	19
11.9	Instance queries	19
11.9.1	General	19
11.9.2	QUERY INSTANCE ERROR	20
11.9.3	QUERY SHORT TIMER	20
11.9.4	QUERY SHORT TIMER MIN	20
11.9.5	QUERY DOUBLE TIMER	20
11.9.6	QUERY DOUBLE TIMER MIN	20
11.9.7	QUERY REPEAT TIMER	20
11.9.8	QUERY STUCK TIMER	20
11.10	Special commands	20
	Bibliography	21
	Figure 1 – IEC 62386 graphical overview	6
	Figure 2 – Button pressed/button released events	12
	Figure 3 – Short press event	12
	Figure 4 – Double press event	13
	Figure 5 – Long press event	13
	Figure 6 – Button stuck event	14
	Table 1 – Meaning of “ <i>inputValue</i> ”	10
	Table 2 – Push button input events	11
	Table 3 – Event filter	14
	Table 4 – Event timer setting	15
	Table 5 – “ <i>manualCapabilityInstance3xx</i> ” values	16
	Table 6 – “ <i>instanceErrorByte</i> ” values	16
	Table 7 – Declaration of device variables	17
	Table 8 – Restrictions to instance variables defined in IEC 62386-103:2014 and IEC 62386-103:2014/AMD1:—	17
	Table 9 – Declaration of instance variables	17
	Table 10 – Standard commands	18

INTERNATIONAL ELECTROTECHNICAL COMMISSION

DIGITAL ADDRESSABLE LIGHTING INTERFACE –**Part 301: Particular requirements – Input devices – Push buttons**

FOREWORD

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International Standard IEC 62386-301 has been prepared by subcommittee 34C: Auxiliaries for lamps, of IEC technical committee 34: Lamps and related equipment.

The text of this standard is based on the following documents:

FDIS	Report on voting
34C/1311A/FDIS	34C/1331/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.

This Part 301 of IEC 62386 is intended to be used in conjunction with:

- Part 101, which contains general requirements for system components;

- Part 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 "<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.

IMPORTANT – The 'colour inside' logo on the cover page of this publication indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this document using a colour printer.

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.

This first edition of IEC 62386-301 is intended to be used in conjunction with IEC 62386-101:2014, IEC 62386-101:2014/AMD1:—, IEC 62386-103:2014 and IEC 62386-103:2014/AMD1:—. 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.

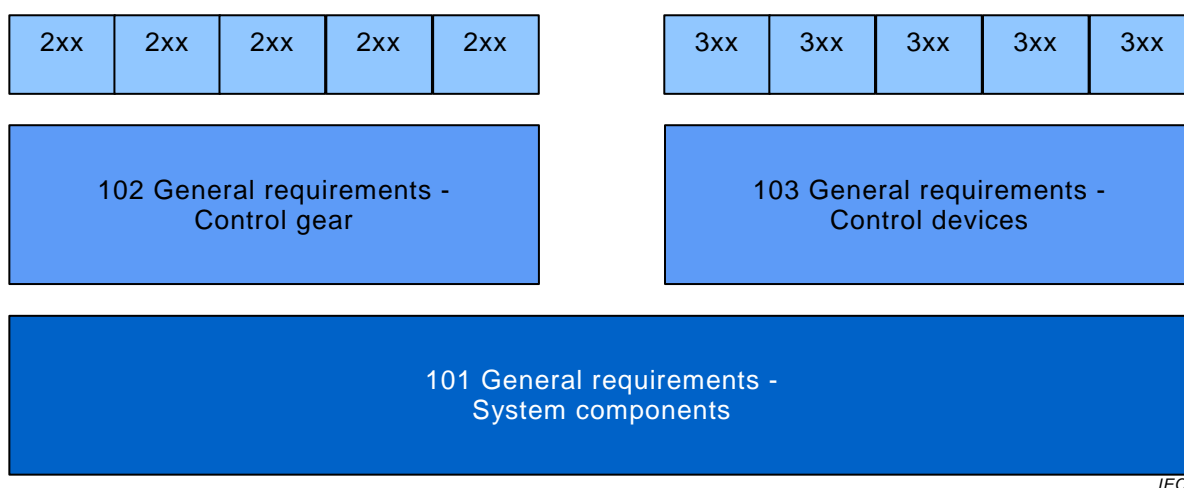


Figure 1 – IEC 62386 graphical overview

This document, and the other parts that make up the IEC 62386-300 series, in referring to any of the clauses of IEC 62386-1XX, specifies the extent to which such a clause is applicable; 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 301: Particular requirements – Input devices – Push buttons

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, with the addition of DC supplies.

This document is only applicable to IEC 62386-103:2014 and IEC 62386-103:2014/AMD1:— input devices that make the lighting control system sensitive to push button operations.

NOTE Requirements for testing individual products during production are not included.

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 62386-101:2014, *Digital addressable lighting interface – Part 101: General requirements – System components*
IEC 62386-101:2014/AMD1:—¹

IEC 62386-103:2014, *Digital addressable lighting interface – Part 103: General requirements – Control devices*
IEC 62386-103:2014/AMD1:—²

IEC 62386-333:—³, *Digital addressable lighting interface – Part 333: Particular requirements for control devices – Manual configuration (feature type 33)*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 62386-101 and 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

instance

push button processing unit of an input device

¹ Under preparation. Stage at the time of publication: IEC ACDV 62386-101/AMD1:2017.

² Under preparation. Stage at the time of publication: IEC ACDV 62386-103/AMD1:2017.

³ Under preparation. Stage at the time of publication: IEC CCDV 62386-333:2017.