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**Digitalni naslovljivi vmesnik za razsvetljavo - 302. del: Posebne zahteve - Vhodne naprave - Absolutne vhodne naprave - Dopolnilo A1**

Amendment 1 - Digital addressable lighting interface - Part 302: Particular requirements - Input devices - Absolute input devices

Digital adressierbare Schnittstelle für die Beleuchtung - Teil 302: Besondere Anforderungen - Eingabegeräte - Absolut-Eingabegeräte

Amendement 1 - Interface d'éclairage adressable numérique - Partie 302: Exigences particulières - Dispositifs d'entrée - Dispositifs d'entrée absolus

**Ta slovenski standard je istoveten z: EN 62386-302:2017/prA1:2023**

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**ICS:**

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

**SIST EN 62386-302:2018/oprA1:2023 en**





34/1012/CDV

COMMITTEE DRAFT FOR VOTE (CDV)

|   |   |
|---|---|
| PROJECT NUMBER:<br><b>IEC 62386-302/AMD1 ED1</b>      |   |
| DATE OF CIRCULATION:<br><b>2023-03-17</b>             | CLOSING DATE FOR VOTING:<br><b>2023-06-09</b> |
| SUPERSEDES DOCUMENTS:<br><b>34/779/CD, 34/800A/CC</b> |   |

|   |   |
|---|---|
| IEC TC 34 : LIGHTING  |   |
| SECRETARIAT:<br>United Kingdom  | SECRETARY:<br>Mr Petar Luzajic  |
| OF INTEREST TO THE FOLLOWING COMMITTEES:  | PROPOSED HORIZONTAL STANDARD:<br><input type="checkbox"/><br>Other TC/SCs are requested to indicate their interest, if any, in this CDV to the secretary. |
| FUNCTIONS CONCERNED:<br><input type="checkbox"/> EMC <input type="checkbox"/> ENVIRONMENT <input type="checkbox"/> QUALITY ASSURANCE <input type="checkbox"/> SAFETY  |   |
| <input checked="" type="checkbox"/> SUBMITTED FOR CENELEC PARALLEL VOTING   | <input type="checkbox"/> NOT SUBMITTED FOR CENELEC PARALLEL VOTING  |
| <p><b>Attention IEC-CENELEC parallel voting</b></p> <p>The attention of IEC National Committees, members of CENELEC, is drawn to the fact that this Committee Draft for Vote (CDV) is submitted for parallel voting.</p> <p>The CENELEC members are invited to vote through the CENELEC online voting system.</p> |   |

This document is still under study and subject to change. It should not be used for reference purposes.

Recipients of this document are invited to submit, with their comments, notification of

- any relevant patent rights of which they are aware and to provide supporting documentation,
- any relevant "in some countries" clauses to be included should this proposal proceed. Recipients are reminded that the enquiry stage is the final stage for submitting "in some countries" clauses. See AC/22/2007.

TITLE:

**Amendment 1 - Digital addressable lighting interface - Part 302: Particular requirements - Input devices - Absolute input devices**

PROPOSED STABILITY DATE: 2026

NOTE FROM TC/SC OFFICERS:

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## 1 FOREWORD

2 This amendment has been prepared by committee TC34 Lighting / WG11 Control Interface.

3 The text of this amendment is based on the following documents:

| FDIS        | Report on voting |
|-------------|------------------|
| 34C/XX/FDIS | 34C/XX/RVD       |

4  
5 Full information on the voting for the approval of this amendment can be found in the report on  
6 voting indicated in the above table.

7 The committee has decided that the contents of this amendment and the base publication will  
8 remain unchanged until the maintenance result date<sup>1)</sup> indicated on the IEC web site under  
9 "http://webstore.iec.ch" in the data related to the specific publication. At this date, the  
10 publication will be

- 11 • reconfirmed,
- 12 • withdrawn,
- 13 • replaced by a revised edition, or
- 14 • amended.

15

16 The following proposals serve to amend  
17 IEC 62386-302:2017 according to the decisions of IEC TC34 WG 11 at their meeting in October  
18 2021.

19

## 20 Proposal

21 [SIST EN 62386-302:2018/oprA1:2023](https://standards.iteh.ai/catalog/standards/sist/5ac6ad35-e9d3-4213-befe-218382d86622/sist-en-62386-302-2018-opra1-2023)  
22 All pages [https://standards.iteh.ai/catalog/standards/sist/5ac6ad35-e9d3-4213-befe-](https://standards.iteh.ai/catalog/standards/sist/5ac6ad35-e9d3-4213-befe-218382d86622/sist-en-62386-302-2018-opra1-2023)  
23 [218382d86622/sist-en-62386-302-2018-opra1-2023](https://standards.iteh.ai/catalog/standards/sist/5ac6ad35-e9d3-4213-befe-218382d86622/sist-en-62386-302-2018-opra1-2023)

24 *Delete all references to IEC 62386-101:2014/AMD1.*

25 *Delete all references to IEC 62386-103:2014/AMD1.*

26 *Replace all dated references to IEC 62386-101 with IEC 62386-101:2022.*

27 *Replace all dated references to IEC 62386-103 with IEC 62386-103:2022.*

28

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30 Page 6

31

## 32 INTRODUCTION

33

34 *Replace the existing Figure 1 by the following new figure 1.*

35

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1) The National Committees are requested to note that for this publication the maintenance result date is ....

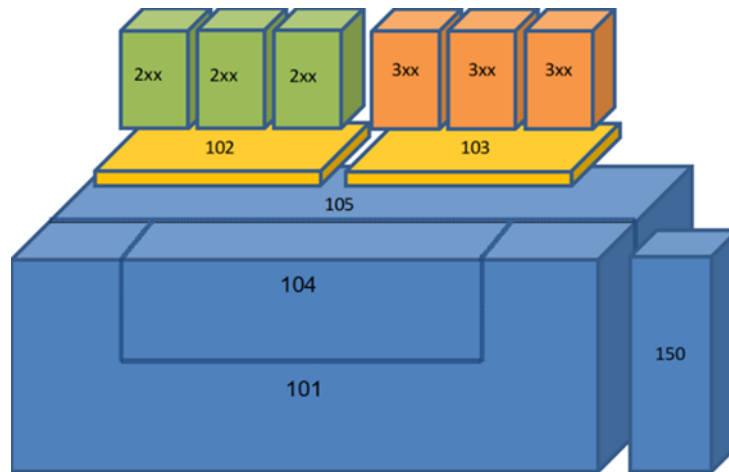


Figure 1 – IEC 62386 graphical overview

36  
37

38  
39 Page 8

## 41 1 Scope

42  
43 *Replace the existing Scope by the following new Scope:*

44  
45 This part of IEC 62386 specifies a bus system for control by digital signals of electronic lighting  
46 equipment.

47 This document is only applicable to IEC 62386-103:2022 input devices that make the lighting  
48 control system sensitive to absolute input devices such as switches or sliders. An absolute input  
49 device always has a deterministic state, such as a position between start and end points.

50  
51 Page 8 <https://standards.iteh.ai/catalog/standards/sist/5ac6ad35-e9d3-4213-befe-218382d86622/sist-en-62386-302-2018-opra1-2023>

## 53 2 Normative references

54  
55 *Replace the existing reference to IEC 62386-333 with the following reference:*

56  
57 IEC 62386-333:2018, *Digital addressable lighting interface – Part 333: Particular*  
58 *requirements for control devices – Manual configuration (feature type 33)*

59  
60 Page 9

### 61 3.7

62 *Delete the note underneath the definition of strictly monotonic.*

63  
64 Page 10  
65

#### 66 9.3.1 General

67  
68 *Modify the first paragraph as shown below:*

69  
70 “*inputValue*” is an *N*-byte value as defined in IEC 62386-103:2022 clause 9.8.2, and shall reflect  
71 the input signal as shown in Table 1.

72  
73 *Modify table 1 as follows:*

- 74 • Add a reference to footnote “d” to “*inputValue*” in the top-left cell.

- 75 • *Insert a footnote d:* For sliders and analogue inputs, this column represents the  
76 “resolution” most significant bits of “inputValue”, with the remaining bits according to  
77 IEC 62386-103:2022, clause 9.8.2.

78  
79 *Replace the existing paragraph after table 1 by the following new paragraph:*  
80

81 An input signal shall be adequately debounced to ensure

- 82 • a single change of “inputValue” reflects the new state of the input signal a maximum of 80 ms  
83 from the first change of a bouncing or non-bouncing input signal;  
84 • a single “INPUT NOTIFICATION” event message.

85

### 86 9.3.3.1 General

87 *Replace the first paragraph and first two bullets with:*

88 For analogue inputs the manual/documentation shall clearly state the relationship between the  
89 measured value defined in IEC 62386-103:2022 clause 9.8.2, and the externally applied signal.  
90 At least the following parameters shall be specified:

- 91 • input signal that shall be represented by a measured value of 0;  
92 • input signal that shall be represent by a measured value of  $([2^{\text{“resolution”}} - 1])$ ;

93

94 Page 12

95 *Add after the clause 9.4.1 a new clause 9.4.1.1:*

### 96 9.4.1.1 Periodic events

97 The periodic “INPUT NOTIFICATION” message to report the position event shall always be sent  
98 with priority 5.

99 NOTE This makes “eventPriority” inapplicable for this event only.

100

101 Page 12

### 102 9.4.4 Event configuration

103 *Replace the first paragraph with the following:*

104 Events shall be enabled or disabled according to the value of “eventFilter”. For this document,  
105 “eventFilter” shall be reduced to one byte. No configuration of “eventFilter” shall prevent the  
106 periodic “INPUT NOTIFICATION” message triggered by the report timer (9.5.1).

107

108 Page 13

### 109 9.5.1 Using the report timer

110 *Insert the following after the first paragraph, and change the last paragraph (starting, “If multiple  
111 devices have the report timer enabled...” to a note.*

112 The report timer shall be started,

- 113 • at power-on: if enabled, immediately after the receiver has started up, with the time to the  
114 first trigger recommended to be shortened to a random time between 0 s and  $T_{\text{report}}$  s;  
115 • otherwise immediately after enablement.