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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 30104.301-2021

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

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Standardization Administration**

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foreword

This document is in accordance with the provisions of GB/T 1:1-2020 "Guidelines for Standardization Work Part 1: Structure and Drafting Rules of Standardization Documents"

drafted:

This document is part 301 of GB/T 30104 "Digital Addressable Lighting Interface": GB/T 30104 has released the following parts:

- Part 101: General requirements for system components;
- Part 102: General requirements for control devices;
- Part 103: General requirements for control equipment;
- Part:201: Particular requirements for control gear fluorescent lamps (equipment type 0);
- Part 202: Particular requirements for control gear Self-contained emergency lighting (equipment type 1);
- Part 203: Particular requirements for control devices for discharge lamps (other than fluorescent lamps) (equipment type 2);
- Part 204: Particular requirements for control gear low-voltage tungsten halogen lamps (equipment type 3);
- Part 205: Particular requirements for control gear incandescent lamp supply voltage controllers (equipment type 4);
- Part 206: Particular requirements for control gear digital signals into DC voltage (equipment type 5);
- Part 207: Particular requirements for control gear LED modules (equipment type 6);
- Part 208: Particular requirements for control gear switch functions (equipment type 7);
- Part 209: Particular requirements for control devices Color control (equipment type 8);

- Part 301: Special requirements for input device buttons;
- Part 302: Special requirements for input devices Absolute input devices;
- Part 303: Special requirements for input device occupancy sensors;
- Part 304: Special requirements for input device light sensors:

This document uses the translation method equivalent to IEC 62386-301:2017 "Digital Addressable Lighting Interface Part 301: Special Requirements

Input Device Button":

The Chinese documents that have a consistent correspondence with the international documents normatively cited in this document are as follows:

---GB/T 30104:101-2021 Digital Addressable Lighting Interface Part 101: General Requirements System Components

(IEC 62386-101:2014, IDT)

---GB/T 30104:103-2017 Digital Addressable Lighting Interface Part 103: General Requirements for Control Equipment

(IEC 62386-103:2014, IDT)

Please note that some content of this document may be patented: The issuing agency of this document assumes no responsibility for identifying patents:

Introduction

GB/T 30104 aims to standardize the digital addressable lighting interface and is intended to consist of the following parts:

Part 103 specifies the general requirements for control equipment:

It is a special requirement to regulate the control device for a specific type of light source:

It is a special requirement that regulates various types of input devices:

GB/T 30104 is divided into several parts and published as a series of standards, and specific provisions are made for each type of equipment: The purpose is to facilitate the standardization of standards:

use and maintenance:

This document will be used concurrently with GB/T 30104:101 and GB/T 30104:103:

The structure of the series of standards is shown in Figure 1 as follows:

Figure 1 Overview of GB/T 30104

Scope of application of this clause: Other sections also include additional requirements when necessary:

except:

The standardization of the control interface of the control equipment is to realize the compatible coexistence and multi-master operation between the electronic control device and the lighting control equipment,

This system is at a lower level than the building management system: This document describes a method of implementing a control device:

Unless otherwise stated, numbers used in this document are in decimal: Hexadecimal numbers are in the format 0xVV, where VV is the number

"Any value":

Use the following typographical expressions:

Variable: "variable name" or "variable name[3:0]", only the 3rd to 0th bits of "variable name" are given:

Range of values: [min,max]:

Directive: "directive-name":

Digital Addressable Lighting Interface

Part 301: Special requirements for input device buttons

1 Scope

This document specifies a bus system controlled by digital signals for electronic lighting equipment that complies with IEC 61347 (all parts points) requirements, and have a DC power supply:

This document only applies to lighting control systems in GB/T 30104:103-2017 and IEC 62386-103:2014/Amd1:2018

Input devices that are sensitive to button actions:

Note: Testing requirements for individual products during production are not included:

2 Normative references

The contents of the following documents constitute essential provisions of this document through normative references in the text: Among them, dated citations

documents, only the version corresponding to that date applies to this document; for undated references, the latest edition (including all amendments) applies to

this document:

GB/T 30104:103-2017 Digital Addressable Lighting Interface Part 103: General Requirements Control Equipment (IEC 62386-103:2014, IDT)

IEC 62386-101 Interfaces for digitally addressable lighting - Part 101: General requirements for system components (Digitaladdressable

lightinginterface-Part 101:Generalrequirements-Systemcomponents)

IEC 62386-103 Interfaces for digitally addressable lighting - Part 103: General requirements for control equipment (Digitaladdressable

lightinginterface-Part 103:Generalrequirements-Controldevices)

IEC 62386-103:2014/Amd1:2018 Digital addressable lighting interfaces Part 103: General requirements for control equipment

(Digitaladdressablelightinginterface-Part 103:Generalrequirements-Controldevices)

IEC 62386-333 Digitally addressable lighting interfaces Part 333: Particular requirements for control equipment Manual configuration [Digitalad-

dressablelightinginterface-Part

333:Particularrequirementsforcontroldevices-Manualconfigura-

tion(featuretype33)]

3 Terms and Definitions

Terms and definitions defined in IEC 62386-101 and IEC 62386-103 and the following terms and definitions apply to this document:

3:1

instance instance

The button processing module for the input device:

[Source: GB/T 30104:101-2021, 3:29, with modifications]

3:2

jitter bouncing

The tendency of any two contacts in an electronic device to generate multiple signals when closed or opened: