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

GB/T 30104.202-2026

Replacing GB/T 30104.202-2013

**Digital addressable lighting interface - Part 202: Particular
requirements for control gear - Self-contained emergency
lighting(device type 1)**

数字可寻址照明接口 第202部分：控制装置的特殊要求 自容式应急照明 (设备类型1)

(English Translation)

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents".

Drafting.

This document is Part 202 of GB/T 30104 "Digital Addressable Lighting Interfaces". GB/T 30104 has the following parts published.

- Part 101: General Requirements for System Components;
- Part 102: General Requirements for Control Devices;
- Part 103: General Requirements for Control Equipment;
- Part 104: General Requirements for Wireless and Other Wired System Components;
- Part 150: Special Requirements for Auxiliary Power Supply;
- Part.201.Special Requirements for Control Devices for Fluorescent Lamps (Equipment Type 0);

---Part 202: Special Requirements for Control Devices - Self-Contained Emergency Lighting (Equipment Type 1);

---Part 203: Special Requirements for Control Devices Discharge lamps (excluding fluorescent lamps) (Equipment Type 2);

---Part 204: Special Requirements for Control Devices - Low-Pressure Halogen Tungsten Lamp (Equipment Type 3);

---Part 205: Special Requirements for Control Devices. Incandescent Lamp Power Supply Voltage Controller (Equipment Type 4);

---Part 206: Special Requirements for Control Devices. Digital Signal Conversion to DC Voltage (Equipment Type 5);

---Part 207: Special Requirements for Control Devices - LED Modules (Equipment Type 6);

---Part 208: Special Requirements for Control Devices (Switching Function) (Equipment Type 7);

---Part 209: Special Requirements for Control Devices - Color Control (Equipment Type 8);

---Part 220: Special Requirements for Control Devices - Central Power Supply and Emergency Operation (Equipment Type 19);

---Part 221: Specific Requirements and Responses for Control Devices (Equipment Type 20);

---Part 222: Special Requirements for Control Devices - Thermal Lamp Protection (Equipment Type 21);

---Part 224: Special Requirements for Control Devices - Non-replaceable Light Sources (Equipment Type 23);

---Part 250: Special Requirements for Integrated Power Supply (Equipment Type 49);

---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 Devices - Optical Sensors this document replaces GB/T 30104.202-2013 "Digital Addressable Lighting Interfaces - Part 202: Particular Requirements for Control Devices".

"Self-Containing Emergency Lighting (Equipment Type 1)" differs from GB/T 30104.202-2013 in that, apart from structural adjustments and editorial changes, the main technical differences are...

The techniques have changed as follows.

- a) The scope of application has been changed (see Chapter 1, Chapter 1 of the 2013 edition);
- b) The operating mode has been changed (see 9.7, 2013 version 9.7);
- c) Added instructions to extend the duration of the test mode (see 9.8.5);
- d) Added the ability to disable wired switch operation (see 9.11.3);
- e) Added instructions for entering extended emergency mode (see 9.12.5);
- f) Added installation suppression functionality (see 9.14);
- g) Added storage blocks (see 9.15).

This document is modified to adopt IEC 62386-202:2022 "Digital addressable lighting interfaces - Part 202: Special requirements for control devices".

Seeking self-contained emergency lighting (equipment type 1).

The technical differences between this document and IEC 62386-202:2022, and the reasons therefor, are as follows.

---IEC 61347-2-7 has been replaced by the normatively referenced GB/T 19510.207, and GB/T 30104.220 has been replaced by the normatively referenced GB/T 30104.220.

IEC 62386-220 (see Chapter 1) has been replaced to adapt to my country's technical conditions and increase operability;

---IEC 62386-101 has been replaced with the normatively referenced GB/T 30104.101 (see Chapter 3, Table 1) to adapt to my country's technical requirements.

Conditions, increase operability;

---IEC 62386-102 has been replaced with the normatively referenced GB/T 30104.102 (see Chapter 1, 9.2, Table 1) to adapt to my country's national standards.

Technical conditions and increased operability.

The following editorial changes have been made to this document.

---IEC 61347-1:2015 has been replaced with GB/T 19510.1-2023 (see Table 15) for informational reference;

---IEC 62034 has been replaced by GB/T 26688 (see note 1 in 9.8.1), which is used for informational reference.

Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

This document was proposed by the China National Light Industry Council.

This document is under the jurisdiction of the National Technical Committee on

Standardization of Lighting Appliances (SAC/TC224).

Introduction

GB/T 30104 "Digital Addressable Lighting Interface" (all parts) describes a method for controlling electronic lighting equipment via digital signals.

The proposed bus system will consist of the following components.

Part 103 provides general requirements for control devices; Part 104 provides general requirements for control equipment.

General requirements for wireless and alternative wired system components; Part 150 specifies the requirements for auxiliary power supplies, which may be independent.

It can be built into a control device or control equipment.

Special requirements for control devices for specific types of light sources.

Special requirements for each type of input device.

GB/T 30104 is published as a series of standards, divided into several parts, providing specific regulations for various types of equipment, with the aim of facilitating the standardization process.

Use and maintenance.

Use them together.

The structure of the series of standards is shown in Figure 1 below.

Figure 1 Overview of GB/T 30104

Other parts also include additional supplementary requirements.

The standardization of control interfaces aims to achieve compatibility between electronic control devices and lighting control equipment; this system has a low hierarchical structure.

This document describes a method for implementing a control device for building management systems.

Unless otherwise stated, all numbers used in this document are decimal numbers.

Hexadecimal numbers are given in 0xVV format.

The "x" in the number represents "any value".

Use the following typographical methods.

Variable. "variable name" or "variable name [3.0]", only the 3rd to 0th characters of the variable name are given.

Range of values. [minimum, maximum].