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

GB/T 30104.150-2026

**Digital addressable lighting interface - Part 150: Particular
requirements - Auxiliary power supply**

数字可寻址照明接口 第150部分：特殊要求 辅助供电

(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 150 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 is modified to adopt IEC 62386-150:2023 "Digital addressable lighting interfaces - Part 150: Special requirements - Auxiliary power supply".

The technical differences between this document and IEC 62386-150:2023, and the reasons therefor, are as follows.

---IEC 62386-101 and IEC 62386-102 have been replaced by the normatively referenced GB/T 30104.101 and GB/T 30104.102.

(See Chapter 3) to adapt to my country's technical conditions and increase operability.

The following editorial changes have been made to this document.

---IEC 60598-1 has been replaced by GB/T 7000.1 (see note 1 in 4.4), 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) specifies a method for controlling electronic lighting devices 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; Part 105 provides general requirements for control devices.

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

It can be built-in or integrated 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;

This document will be used in conjunction with GB/T 30104.101 and GB/T 30104.102.

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.

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

Hexadecimal numbers are given in 0xVV format.

In the system of numbers, "x" 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].

Command. "Command name".

Digital addressable lighting interface Part 150: Special Requirements for Auxiliary Power

Supply

1 Scope

This document specifies the minimum requirements for auxiliary (AUX) power supplies that can be used to provide power to loads such as sensors or communication equipment.

Require.

This document applies to units that provide power to bus units.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included.

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

This document.

GB/T 30104.101 Digitally Addressable Lighting Interfaces - Part 101: General Requirements for System Components (GB/T 30104.101-2025, IEC 62386-101:2022, IDT)
GB/T 30104.101-2025 Digitally Addressable Lighting Interfaces - Part 101: General Requirements for System Components (IEC 62386-101:2022, IDT) GB/T 30104.102 Digitally Addressable Lighting Interfaces - Part 102: General Requirements - Control Devices (GB/T 30104.102-2025, IEC 62386-102:2022, IDT)

3 Terms and Definitions

The terms and definitions defined in GB/T 30104.101 and GB/T 30104.102, as well as the following terms and definitions, apply to this document.

auxiliary power supply the unit that provides power to the bus unit.

4.1 General Provisions

The auxiliary power supply specified in this document can provide 24V DC power to power the controller, occupancy sensor, photosensitive sensor or other devices.

It eliminates the need for AC/DC power supplies in such devices, and also eliminates the need for corresponding surge suppressors and electromagnetic interference filters.

Overview of auxiliary power supply characteristics (for reference).

- The auxiliary power supply can provide an average power of 3W and a pulse power of 6W;