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

GB/T 30104.207-2025

Replacing GB/T 30104.207-2013

**Digital addressable lighting interface - Part 207: Particular
requirements for control gear - LED modules (device type 6)**
(English Translation)

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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 for standardization documents" Drafting.

This document is part 207 of GB/T 30104 Digital Addressable Lighting Interface. GB/T 30104 has been published in 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 104: General requirements for wireless and other wired system components;
- Part.201.Particular requirements for control gear for fluorescent lamps (equipment type 0);
- Part 202: Particular requirements for control devices Self-contained emergency lighting (equipment type 1);
- Part 203: Particular requirements for control gear for discharge lamps (other than

fluorescent lamps) (equipment type 2);

--- Part 204: Particular requirements for control gear for low-pressure tungsten halogen lamps (equipment type 3);

--- Part 205: Particular requirements for control gear for incandescent lamp supply voltage controllers (equipment type 4);

--- Part 206: Particular requirements for control devices converting 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 devices switching functions (equipment type 7);

--- Part 209: Particular requirements for control devices Color control (equipment type 8);

--- Part 220: Particular requirements for control devices - Central power supply emergency operation (device type 19);

--- Part 222: Particular requirements for control devices heat lamp protection (device type 21);

--- 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 light sensors.

This document replaces GB/T 30104.207-2013 "Digital addressable lighting interface Part 207: Particular requirements for control devices" Compared with GB/T 30104.207-2013, in addition to structural adjustments and editorial changes, the main technical the changes are as follows.

a) The scope of the document has been changed (see Chapter 1, Chapter 1 of the 2013 edition);

b) Changed the fast fade time (see 9.2, 9.2 of the 2013 edition);

c) Deleted some instructions (see Chapter 11 of the 2013 edition);

d) The test procedures and algorithm examples (see Chapter 12 and Appendix A of the 2013 edition) have been deleted.

This document is equivalent to IEC 62386-207:2018 "Digital addressable lighting interface Part 207: Particular requirements for control gear" Requesting LED module (device type 6) this document was proposed by the China Light Industry Federation.

This document is under the jurisdiction of the National Technical Committee for Standardization of Lighting Appliances (SAC/TC224).

Introduction

GB/T 30104 (all parts) specifies a bus system for controlling electronic lighting equipment through digital signals, which is intended to consist of the following Partial composition.

Part 103 specifies the general requirements for control devices. Part 104 specifies the general requirements for control equipment.

General requirements for wireless and alternative wired system components. Part 105 specifies general requirements for firmware upgrades. Part 150 the requirements for auxiliary power supplies are given. Auxiliary power supplies can be independent or built into the control device or control equipment.

Particular requirements for controlgear for certain types of luminaires.

Special requirements for each type of input device.

GB/T 30104 is published as a series of standards divided into several parts to facilitate future revision and amendment, and to add new parts when necessary.

Other requirements.

The structure and relationship of the series of standards are shown in Figure 1 as follows.

Figure 1 Overview of GB/T 30104

The scope of application of this clause. Other sections also include additional requirements when necessary.

except.

The standardization of control interface of control device aims to achieve compatibility between electronic control device and lighting control equipment.

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

Unless otherwise specified, all numbers used in this document are decimal. Hexadecimal numbers are given in the format 0xVV.

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

Use the following typographical expressions.

Variable. "variable name" or "variable name[3.0]" only gives the 3rd to 0th digits of the variable name.

The range of values is. [minimum, maximum].

Command. "command name".

Digital Addressable Lighting Interface Part 207: Control Particular requirements for devices LED modules (device type 6)

1 Scope

This document specifies the electrical specifications, interface power supply, transmission protocol framework structure of the bus system for controlling electronic lighting equipment through digital signals.

The system complies with the requirements of IEC 61347 (all parts) and has a DC power supply.

This document is only applicable to control devices related to LED modules in GB/T 30104.102-2025.

NOTE: Requirements for testing individual control devices during production are not included.

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document.

For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to this document.

IEC 62386-102:2014 Digital addressable lighting interface Part 102: General requirements for control gear IEC 62386-102:2014/AMD1.2018 Note. GB/T 30104.102-2025 Digital addressable lighting interface Part 102: General requirements system components (IEC 62386-102:2022, IDT) IEC 62386-216 Digital addressable lighting interface Part 216: Particular requirements for control gear Load reference (device type IEC 62386-217 Digital addressable lighting interface Part 217: Particular requirements for control gear Thermal protection of devices (equipment type IEC 62386-218:2018 Digital addressable lighting interface Part 218: Particular requirements for control gear Dimming curve selection IEC 62386-222 Digital addressable lighting interface Part 222: Particular requirements for control gear Thermal lamp protection (device type Note. GB/T 30104.222-2025 Digital addressable lighting interface Part 222: Particular requirements for control gear Heat lamp protection (equipment type 21) (IEC 62386-222:2018, IDT) IEC 62386-224 Digital addressable lighting interface Part 224: Particular requirements for control gear Non-replaceable light sources (devices