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

GB/T 19510.211-2023

Replacing GB 19510.12-2005

**Controlgear for electric light sources - Part 2-11: Particular
requirements for miscellaneous electronic circuits used with
luminaires**

光源控制装置 第2-11部分：与灯具联用的杂类电子线路的特殊要求

(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 2-11 of GB/T 19510 "Light Source Control Device": GB/T 19510 has published the following parts:

---Part 1: General requirements and safety requirements;

---Part 2-1: Special requirements for starting devices (except glow starters);

---Part 2-2: Special requirements for DC/AC electronic buck converters for tungsten lamps;

---Part 2-3: Special requirements for AC and/or DC electronic control devices for fluorescent lamps;

---Part 2-7: Special requirements for electronic control devices powered by safety service power supply (ESSS) for emergency lighting (self-contained);

---Part 2-8: Special requirements for ballasts for fluorescent lamps;

---Part 2-9: Special requirements for electromagnetic control devices for discharge lamps (except fluorescent lamps);

---Part 2-10: Special requirements for electronic inverters and frequency converters for high-frequency cold start tubular discharge lamps (neon lamps);

---Part 2-11: Special requirements for miscellaneous electronic circuits used with lamps;

---Part 2-12: Special requirements for DC or AC electronic ballasts for discharge lamps (except fluorescent lamps);

---Part 2-13: Special requirements for DC or AC electronic control devices for LED modules:

This document replaces GB 19510.12-2005 "Lamp control devices - Part 12: Special requirements for miscellaneous electronic circuits used with lamps" Requirements", compared with GB 19510.12-2005, in addition to structural adjustments and editorial changes, the main technical changes are as follows:

---Changed the scope of this document (see Chapter 1, Chapter 1 of GB 19510.12-2005);

---Changed the requirements for mandatory marking of miscellaneous electronic circuits (except integral type) (see 7.1, 7:1 of GB 19510.12-2005):

This document is modified to adopt IEC 61347-2-11:2017 "Lamp control devices - Part 2-11: Miscellaneous electronic circuits for use with lamps" special requirements":

The technical differences between this document and IEC 61347-2-11:2017 and their reasons are as follows:

---Replaced IEC 61347-1 with normatively cited GB/T 19510.1-2023 to adapt to my country's technical conditions and increase reliability Operability:

The following editorial changes have been made to this document:

---In order to coordinate with the existing standards, the name of the standard is changed to "Light Source Control Part 2-11: Miscellaneous electronic circuits used with lamps and lanterns" special requirements":

Please note that some content in this document may be subject to patents: The publisher of this document assumes no responsibility for identifying patents:

Introduction

With the development of light source control device technology, the safety specifications of the previous version of the light source control device can no longer be adapted to meet the current light source control requirements:

Technical requirements and product safety requirements of the device: Safety requirements ensure that electrical equipment is correctly installed, maintained and used in the manner intended Reduce harm to people, livestock or property: GB/T 19510 "Light Source Control Device" updates the technical and safety requirements to the regulations:

It is of great significance to standardize light source control devices, reduce product safety risks, improve product quality, and enhance the competitiveness of our products:

GB/T 19510 aims to standardize light source control devices and is intended to consist of the following parts:

---Part 1: General requirements and safety requirements: The purpose is to standardize the general requirements for control devices and their safety requirements:

---Part 2-1: Special requirements for starting devices (except glow starters): The purpose is to standardize starting devices (except glow starters) (external) special requirements for safety requirements:

---Part 2-2: Special requirements for DC/AC electronic step-down converters for tungsten lamps: The purpose is to standardize the direct use of tungsten filament lamps Special requirements for safety requirements of current/AC electronic buck converters:

---Part 2-3: Special requirements for AC and/or DC electronic control devices for fluorescent lamps: The purpose is to standardize AC for fluorescent lamps and/or special requirements for safety requirements of DC electronic control devices:

---Part 2-7: Special requirements for electronic control devices powered by safety service power supplies (ESSS) for emergency lighting (self-contained): Purpose Special requirements for regulating the safety requirements of electronic control devices powered by safety service power supplies (ESSS) for emergency lighting (self-contained):

---Part 2-8: Special requirements for ballasts for fluorescent lamps: The purpose is to standardize special safety requirements for ballasts for fluorescent lamps:

Require:

---Part 2-9: Special requirements for electromagnetic control devices for discharge lamps (except fluorescent lamps): The purpose is to standardize discharge lamps (fluorescent lamps Except) special requirements for safety requirements for electromagnetic control devices:

---Part 2-10: Special requirements for electronic inverters and frequency converters for high-frequency cold start tubular discharge lamps (neon lamps): The purpose is Special requirements for regulating the safety requirements of electronic inverters and frequency converters for high-frequency cold start tubular discharge lamps (neon lamps):

---Part 2-11: Special requirements for miscellaneous electronic circuits used with lamps: The purpose is to standardize miscellaneous electronics used in conjunction with lamps Special requirements for line safety requirements:

---Part 2-12: Special requirements for DC or AC electronic ballasts for discharge lamps (except fluorescent lamps): The purpose is to regulate discharge Special requirements for the safety of DC or AC electronic ballasts for lamps (other than fluorescent lamps):

---Part 2-13: Special requirements for DC or AC electronic control devices for LED modules: The purpose is to standardize the use of LED modules Special requirements for safety requirements for DC or AC electronic control devices:

This document is used together with GB/T 19510.1, which is revised after supplementing or modifying the corresponding provisions of GB/T 19510.1 made: This document and GB/T 19510.201~GB/T 19510.213 stipulate this when citing any clause of GB/T 19510.1:

The scope of application of the clauses and the test sequence of each test are specified, and necessary supplementary requirements are specified: Each part of GB/T 19510 is independent Established without reference to each other to facilitate future revisions and revisions: If deemed necessary, new requirements will be added:

Light source control devices Part 2-11:

Special requirements for miscellaneous electronic circuits used in conjunction with luminaires

1 Scope

This document specifies the use of lamps and lanterns using AC power supplies below 50Hz or 60Hz1000V and/or DC power supplies below 1000V:

General requirements and safety requirements for miscellaneous lines:

This document does not apply to lines or devices for which dedicated standards exist:

NOTE: Examples of miscellaneous electronic circuits used in conjunction with luminaires are as follows:

---Control circuit of electronic ballast;

---Switch circuit for use with daylight sensor;

---Circuits that contribute to electromagnetic compatibility performance;