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

GB/T 16915.6-2015

**Switches for household and similar fixed electrical installations
-- Part 2-5: Switches and related accessories for use in home
and building electronic systems (HBES)
(English Translation)**

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Foreword

GB 16915 "Switches for household and similar fixed electrical installations" has or plans to release the following sections.

--- Part 1. General requirements

--- Part 2. Particular requirements - Part 2-1. Particular requirements for electronic switches
- Part 2-2. Particular requirements for remote control switch - Part 2-3. Particular

requirements for time delay switch - Part 2-4. Particular requirements for isolating switches - Part 2-5. Home and Building Electronic Systems (HBES) Switches and parts - Part 2-6. Particular requirements for external or internal signs and lighting Fire switch this section is part of 2-5 GB 16915.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This section uses redrafted law revision adopted IEC 60669-2-5:2013 (First Edition) "Household and similar fixed electrical installations Switch Part 2-5. Home and Building Electronic Systems (HBES) Switches and parts. " this part of IEC 60669-2-5:2013 and its causes technical differences are as follows.

--- On the use of ambient temperature. In Chapter 1, IEC 60669-2-5:2013 provision "in line with the requirements of this section suitable HBES switch for use in a usually not more than 25 °C, but occasionally reach 35 °C environment. "To." in line with the requirements of this section HBES switches are suitable for use in usually not more than 35 °C, but occasionally reach 40 °C environment. "To fit our gas Climate, geographical conditions, and GB 16915.1-2014 and consistent.

--- On normative references, this part has been adjusted technical differences, in order to adapt our technical conditions, the adjusted situation Focus is reflected in the status of Chapter 2, "Normative references", the specific adjustments are as follows.

- Switches Part 1 GB 16915.1-2014 household and similar fixed electrical installations. General requirements (IEC 60669-1:2007, MOD) instead of IEC 60669-1;

- GB 16915.2-2012 Switches for household and similar fixed electrical installations - Part 2-1. electronic switch Particular requirements [IEC 60669-2-1:2009 (Ed4.1), MOD] instead of IEC 60669-2-1;

- Chapter 12 because quoted GB 13140, GB 13140 so increased in Chapter 2 (all parts) for household and class Connecting devices for low voltage circuits like the use of [IEC 60998 (all parts)];

- Chapter 23 because references GB/T 16935.3, thus increasing the GB/T 16935.3 low pressure in the system in Chapter 2 Insulation coordination for equipment - Part 3. Using the coating, potting or molding for protection against pollution (GB/T 16935.3-2005, IEC 60664-3:2003, IDT);

- Because 26.1.3 references GB/T 19334, thus increasing the GB/T 19334 Low-voltage switchgear and in Chapter 2 Size control apparatus for mechanical support of electrical devices in switchgear and control equipment standard mounting rail (GB/T 19334-2003, IEC 60715. 1981, IDT);

- Because 26.2.3 references GB 17799.3, GB 17799.3 thus increasing the EMC generic standard in Chapter 2 Quasi residential, commercial and light industrial environments

emission (GB 17799.3-2012, IEC 61000-6-3:2011, IDT).

--- To prevent electric shock, 10.201 in the bar or on the use of cover shell manner, so that the requirements of at least Protection Class IP30;

IEC 60669-2-5:2013 requirements for the degree of protection of at least IP2X or IPXXB.

--- According to China's environmental conditions, the table 208 electrostatic discharge immunity testing by the test voltage 4kV to 6kV.

--- According to the voltage level of the Appendix BB in FIG BB.1 to FIG BB.7 of 230V to 220V.

This part made the following editorial changes.

--- According to GB/T 1.1 relevant provisions in Chapter 1, "scope" in the first line and second line complements the "provisions of this Part of GB 16915 Residential and building electronic systems (HBES) by Category Switches and related accessories logo, protection against electric shock, structural requirements, mechanical Properties, electrical properties and other technical requirements... "

--- Remove the IEC 60669-2-5:2013 applies to some other countries and regions of the comments, as in Chapter 1 Note 1,3.201

Note 2,26.1 Note 1, Note 2 and so on.

--- For ease of understanding, a footnote to the table 212 is amended as "If HBES switch in line with GB/T 17626.20 6.1 identified small EUT, it can use GB/T 17626.20... "

--- Since the sequence table GB 16915.1-2014 made adjustments corresponding to this part IEC 60669-2-5. 12.1 2013's, 13.3,16 like reference table according to the number of GB 16915.1-2014 in number.

This part is proposed by the China Electrical Equipment Industrial Association.

This part of the National Electric annex Standardization Technical Committee (SAC/TC67) centralized.

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1 Scope

GB 16915.1-2014 chapter read as follows.

GB 16915 of the provisions of this part of the home and building electronic systems Category Switches and related accessories logo, protection against electric shock, structure Requirements, mechanical properties, electrical properties and other technical requirements.

This section is intended for indoor or outdoor use, the working voltage does not exceed 250Va.c., Rated current not exceeding 16A household and similar HBES fixed electrical switching apparatus is also applicable to the electronic assistance devices.

This section applies to.

--- Manipulate lighting circuit for controlling the lamp brightness (dimmer), the motor control (such as exhaust fan motor) speed and for other purposes (Such as electric apparatus) of HBES switch;

--- Sensors, starters, sockets, and other related electronic auxiliary device with a switch.

In the existing standards, "HBES switch" is used to describe all kinds of HBES devices such as switches, sensors, starters, belt Sockets, switches and other equipment related to the electronic aids.

And achieve operational control of the following ways.

--- Artificially by actuating elements, keys, cards, etc., with the surface of the sensing element or sensing by contact, proximity, rotation, light, sound, or heat;

--- By physical means, such as light, temperature, humidity, time, wind speed, human existence;

--- Other by an external impact;

And, by way of the following transmission.

--- By electronic signals in several media, such as transmission lines (power line), twisted pair, fiber optic, RF and infrared light.

Comply with the requirements of this section applies to HBES switches usually not more than 35 °C, but occasionally reach 40 °C ambient temperature use.

This section also applies to HBES switch installation box, but not for HBES switches concealed mounting box, the latter GB 17466.1 Covered.

Functional safety requirements for HBES switch is outside the scope of this standard. Functional safety requirements by the HBES switch control device Covered by the standard.