

ICS 29.120.40
CCS K 64



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

GB 15092.4-2006

Replacing GB/T 15092.4-2006

**Switches for appliances - Part 2-4: Particular requirements for
independently mounted switches
(English Translation)**

Issued on: August 6, 2023

Implemented on: March 1, 2024

**Issued by: State Administration for Market Regulation, China National
Standardization Administration**

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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 2-4 of GB/T 15092 "Appliance Switches". GB/T 15092 has released the following parts.

- Appliance switches Part 1: General requirements (GB/T 15092.1-2020);
- Appliance switches Part 1-1.Mechanical switch requirements (GB/T 15092.101-2020);
- Appliance switches Part 1-2.Electronic switch requirements (GB/T 15092.102-2020);
- Appliance switches Part 2-1.Special requirements for soft cord switches (GB/T 15092.2-2014);
- Appliance switches Part 2-5.Special requirements for conversion selectors (GB/T 15092.3-2014);
- Appliance switches Part 2-4.Special requirements for independently installed switches (GB/T 15092.4-2006);
- Appliance switches Part 2-6.Special requirements for switches for hand-held and portable power tools and garden machines (GB/T 15092.5-2021).

This document replaces GB/T 15092.4-2006 "Appliance Switches Part 2: Special Requirements for Independently Installed Switches" and is consistent with GB/T 15092.4-2006, in addition to structural adjustments and editorial changes, the main technical changes are as follows.

- a) Delete the clause number 1.1 and delete the contents 1.2 to 1.4 (see 1.1~1.4 of the 2006 version);
- b) Added normative references to GB/T 5169.11 (see Chapter 2);
- c) The content of Chapter 7 has been changed. the content of 7.5 has been replaced, 7.11 and 7.22 are not applicable, "7.1.101" has been changed to "7.101", "7.1.102" is changed to "7.102" (see Chapter 7, Chapter 7 of the 2006 edition);
- d) Table 101 is deleted (see the 2006 version of Table 101);
- e) Changed the content of Table 3, changing the title of Table 3 "Switching Data Information" to "Switching Data Information and Group Load" (see Table 3, 2006 version of Table 3);
- f) Delete 10.101 "Switches used in Class I appliances should have a continuous grounding

connection device" (see 10.101 in the 2006 edition);

g) Change the content of Chapter 11 to "GB/T 15092.1-2020 This chapter applies" (see Chapter 11, Chapter 11 of the 2006 edition);

h) Changed the description of the content requirements of 12.107 and 12.108, changed the cable model in Table 101 (see 12.107, 12.108 and

Table 101, 12.107, 12.108 and Table 101 of the 2006 edition);

i) The content of Chapter 14 has been changed, and the title "Protection against solid foreign objects, dust, water and moisture" has been changed to "Protection against solid foreign objects, water and moisture" Moisture-proof" (see Chapter 14, Chapter 14 of the 2006 edition);

j) The version of the referenced standard in Chapter 18 has been changed to "GB/T 16915.1-2014" (see Chapter 18, Chapter 18 of the 2006 edition);

k) The content of Chapter 20 has been changed, changing "under consideration" to "GB/T 15092.1-2020 this chapter applies" (see Chapter 20 Chapter, Chapter 20 of the 2006 edition);

l) The content of Chapter 21 has been changed, the title "Heat Resistance and Flame Retardancy" has been changed to "Fire Hazard", and relevant technical content has been added to 21.2 (See Chapter 21, Chapter 21 of the 2006 edition);

m) Change the title of Chapter 23 "Abnormal operation and fault conditions of electronic switches" to "Abnormal operation and fault conditions of switches" (See Chapter 23, Chapter 23 of the 2006 edition);

n) Change the title of Chapter 24 "Components" to "Switching Components" (see Chapter 24, Chapter 24 of the 2006 edition);

o) The appendix numbers have been changed, "Appendix R, Appendix S, Appendix T" to "Appendix K, Appendix L, Appendix M" (see Appendix K, Appendix L, Appendix Appendix M, Appendix R, Appendix S, and Appendix T of the 2006 version);

p) The table serial numbers were changed, "Table 102, Table 103, and Table 104" were changed to "Table 101, Table 102, and Table 103" (see Table 101, Table 102,

Table 103, Table 102, Table 103, and Table 104 of the 2006 version).

This document is modified to adopt IEC 61058-2-4:2018 "Appliance Switches Part 2-4.Special Requirements for Independently Installed Switches".

The technical differences between this document and IEC 61058-2-4:2018 and their reasons are as follows.

---Replaced IEC 61058-1:2016 (see all chapters of this document) with GB/T

15092.1-2020, which modified the procurement standard, to adapt my country's technical conditions;

---Replaced IEC 60669-1:2017 (see Chapter 2, Chapter 12, Chapter 18) with GB/T 16915.1-2014, which modified the procurement standard, to Adapt to my country's technical conditions;

---Replaced IEC 60695-2-11 (see 21.2) with GB/T 5169.11 for the convenience of users;

---14.3 corresponding to IEC 61058-2-4:2018."Moisture treatment is carried out in a humidity box, and the relative humidity of the air in the box is Between 91% and 95%. In all places where the specimens are placed, the air temperature is maintained at any appropriate temperature value between 20°C and 30°C.

(t)", considering that some areas in our country have a humid tropical climate, and our country's electrical and electronic products all use $(40\pm 2)^{\circ}\text{C}$ for moisture-proof testing Therefore, this document stipulates. "Moisture treatment is carried out in a humidity box, and the relative humidity of the air in the box is between 91% and 95%. In in all places where the specimen is placed, the air temperature should be maintained at any appropriate temperature value (t) between 30°C and 40°C (see 14.3).

The following editorial changes have been made to this document.

---Chapter 2 deletes IEC 60245-4 and IEC 60227-5 that are not cited in this document (see Chapter 2);

---Changed the note in Chapter 9 to "For the purpose of this article, paint or enamel is not considered as an insulating material" (see Chapter 9);

---9.1 changed to 9.1.1 (see 9.1.1);

---The "soft cable" in the corresponding table in Table 102 is changed to "soft cable/torque" (see Table 102);

---Added the title 19.102 "Screw Replacement of Insulating Materials" (see 19.102);

---Change the clerical error in Chapter 25 "Except for the following content, IEC 61058-1:2018 this chapter applies" to "GB/T 15092.1-2020 this chapter applies" (see Chapter 25).

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

GB/T 15092 "Appliance Switches" is a basic standard for product structure safety, performance testing, and material confirmation in the field of appliance switches. It is applicable to Appliance switches that connect or control household or similar electrical