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

GB/T 25890.4-2026

Replacing GB/T 25890.4-2010

**Railway applications - Fixed installations - DC switchgear - Part
4: Outdoor d. c. disconnectors, switch-disconnectors and
earthing switches**

轨道交通 地面装置 直流开关设备 第4部分：户外直流隔离开关、负荷开关和接地
开关

(English Translation)

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References

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 4 of GB/T 25890 "DC Switchgear for Ground Installations in Rail Transit". GB/T 25890 has been issued.

The following parts were laid out.

---Part 1: General Provisions;

---Part 2: DC Circuit Breakers;

---Part 3: Indoor DC disconnect switches, load switches and grounding switches;

---Part 4: Outdoor DC disconnect switches, load switches and grounding switches;

---Part 5: DC Switchgear Assemblies;

---Part 7-1.Application Guidelines for Dedicated Measurement, Control, and Protection Devices for DC Traction Power Supply Systems;

---Part 7-2.Dedicated Measurement, Control, and Protection Devices for DC Traction Power Supply Systems. Isolation Current Transmitters and Other Current Measurements equipment;

---Part 7-3.Dedicated Measurement, Control, and Protection Devices for DC Traction Power Supply Systems. Isolated Voltage Transmitters and Other Voltage Measurement Devices equipment.

This document replaces GB/T 25890.4-2010 "DC Switchgear for Ground Installations in Rail Transit - Part 4: Outdoor DC Isolation Equipment".

"Off-grid Switches, Load Switches and Grounding Switches", compared with GB/T 25890.4-2010, except for structural adjustments and editorial changes, the main technical differences are as follows.

The changes are as follows.

- a) The scope has been changed (see Chapter 1, Chapter 1 of the 2010 edition);
- b) The voltage specifications for rated breaking and making capabilities have been changed (see 5.3.3, 2010 version of 5.3.3);
- c) The functional definition of Class V switches in the switch types has been changed (see Table 1, Table 1 in the 2010 version);
- d) The requirement that switches conform to the production drawings has been added (see 6.1);
- e) The requirements for both buyers and sellers have been removed (see 6.14 in the 2010 edition);
- f) The position requirements for the terminals in the main circuit connection have been changed (see 6.6, 2010 version of 6.6);
- g) The type of switch used in the closing capability test has been changed (see 8.2.8.4, 8.3.8.4 in the 2010 version);
- h) The type of operating switch applicable to the test has been changed (see 8.2.10, 8.3.10 in the 2010 version);
- i) General requirements for inspection rules have been added (see 9.1);
- j) The inspection items have been changed (see Table 3, Table 2 in the 2010 edition).

This document is modified to adopt IEC 61992-4:2015 "DC switchgear for ground installations on rail transit - Part 4: Outdoor DC isolation".

"Leave the switch, load switch and grounding switch".

Compared with IEC 61992-4:2015, this document has undergone the following structural adjustments.

---8.2 corresponds to 8.3 of IEC 61992-4:2015;

---Chapter 9 and 9.1 "General Requirements" have been added;

---9.2 corresponds to 8.2 of IEC 61992-4:2015.

This document differs technically from IEC 61992-4:2015; the relevant clauses are indicated by vertical single characters in the margin.

The lines (|) are marked. The specific technical differences and their reasons are as follows.

---The scope has been changed (see Chapter 1) to suit my country's national conditions;

---The normative reference document has been changed, replacing IEC 61992-1:2006 with GB/T 25890.1-2026 (see Chapter 3, 5.3~).

5.6, 6.1, 6.2, 6.4, 6.10, 6.11, 7.2, 8.1, 8.3, 9.2) replaced EN50124-1 with GB/T 32350.1 (see GB/T 32350.1).

Chapters 4, 5.5, and 5.6) replace IEC 60529:1989 (see 5.2, 6.9, and 8.2.7) with GB/T 4208-2017.

GB/T 1402-2025 replaces IEC 60850 (see 5.3.2), and GB/T 25890.5-2026 replaces IEC 61992-6:2006 (see 6.7, 6.9), replaced IEC 62271-102 (see 6.12, 8.2.7) with GB/T 1985-2023.

GB/T 11022-2020 replaces IEC 60694:1996 (see 8.2.1.2) to adapt to my country's technical conditions and increase operability.

Actual nature;

---Added information on whether the product meets the requirements of the production drawings (see 6.1), clarifying the requirements;

---The notes in sections 6.2 and 6.4 have been changed to main text (see sections 6.2 and 6.4) to clarify requirements and facilitate use;

---The requirements for the position of the wiring terminals in the main circuit connection have been changed (see 6.6), clarifying the requirements and facilitating use;

---Content that could be agreed upon by the manufacturer and user has been removed (see IEC 61992-4:2015, 6.6, 6.12, 6.18, 8.3.5, 8.3.6).

8.3.8.2 and 8.3.8.4) clearly define the requirements and facilitate use;

---Type testing requirements have been added (see Chapter 9) to adapt to my country's national conditions;

---The section "Test Items and Test Order" has been changed to "Inspection Items" (see 9.2) to better suit my country's national conditions;

---Added clauses on inspection classification and technical requirements (see Table 3) to adapt to my country's national conditions.

The following editorial changes have been made to this document.