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NATIONAL STANDARD
OF THE PEOPLE'S REPUBLIC OF CHINA
中华人民共和国国家标准

GB 13954-2009

Replace GB 13954-2004

**Warning Lamps for Police Cars, Fire
Engines, Ambulances and Engineering
Rescue Vehicles**

警车、消防车、救护车、工程救险车标志灯具

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Standardization Administration (SAC) of the People's
Republic of China**

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Foreword

Chapter 5 (excluding Article 5.1.2 and Section 5.3), Section 7.2 and Article 9.1.1 in this standard are compulsory and the rest are voluntary.

This standard replaces "Emergency Vehicle Warning Lamps" (GB 13954-2004).

Compared with GB 13954-2004, the main changes in this standard are as follows:

- The standard name was changed into "Warning Lamps for Police Cars, Fire Engines, Ambulances and Engineering Rescue Vehicles" (standard name of this Edition);
- The term "emergency vehicle" (Section 3.1 of Edition 2004) was deleted; the terms and definitions of "police cars" (Section 3.1 of this Edition), "fire engines" (Section 3.2 of this Edition), "ambulances" (Section 3.3 of this Edition) and "engineering rescue vehicles" (Section 3.4 of this Edition) were added;
- The term of "emergency vehicle warning lamps" (Section 3.2 of Edition 2004) was changed into "warning lamps" (Section 3.5 of this Edition);
- The definitions of the term "primary optical warning device" (Section 3.5 of Edition 2004; Section 3.8 of this Edition) and the term "secondary optical warning device" (Section 3.6 of Edition 2004; Section 3.9 of this Edition) were changed;
- The term of "lampshade" (Section 3.7 of Edition 2004) was changed into "lampshade of primary optical warning device" (Section 3.11 of this Edition);
- The terms and definitions of "illuminating light" (Section 3.10 of this Edition), "on time" (Section 3.12 of this Edition), "off time" (Section 3.13 of this Edition), "optical power" (Section 3.14 of this Edition), "single warning lamps" (Section 3.15 of this Edition) and "complete warning lamps" (Section 3.16 of this Edition) were added;
- The "naming of warning lamps" (Section 4.2 of Edition 2004; Section 4.2 of this Edition) was modified;
- The requirements for composition (Section 5.2 of this Edition) and of optical warning device (Section 5.3 of this Edition) of warning lamps were added;
- The electrical property was modified; the requirements for polar inverse-wiring, standby current and conductors were added (Section 5.3 of Edition 2004; Section 5.5 of this Edition);
- The blue chromaticity coordinate range in chromaticity property (Section 5.4 of Edition 2004; Section 5.6 of this Edition) and the corresponding blue chromaticity area in Appendix A were modified;
- The luminous intensity requirements were modified and the light intensity distribution requirements were added (Section 5.5 of Edition 2004; Section 5.7 of this Edition);
- The luminous frequency was changed into flickering characteristic (Section 5.6 of Edition 2004, Section 5.8 of this Edition);
- The upper limit of operating noise was changed from 65 dB(A) into 55 dB(A) (Section 5.7 of Edition 2004; Section 5.9 of this Edition);
- The voltage fluctuation range in power supply adaptability was modified (Section 5.8 of Edition 2004; Section 5.10 of this Edition);
- The constant temperature and moisture test as well as high-temperature and high-voltage test in environmental adaptation were changed into high temperature resistance

(Section 5.9 of Edition 2004; Section 5.13 of this Edition);

- The cold starting test as well as low-temperature and low-voltage test in environmental adaptation were changed into cold resistance (Section 5.9 of Edition 2004; Section 5.14 of this Edition);

- The methods for electrical property inspection (Section 6.4 of Edition 2004; Section 6.3 of this Edition), chromaticity property test (Section 6.5 of Edition 2004; Section 6.4 of this Edition), luminous intensity testing (Section 6.6 of Edition 2004; Section 6.5 of this Edition), flickering characteristic testing (Section 6.7 of Edition 2004; Section 6.6 of this Edition), power supply adaptability testing (Section 6.9 of Edition 2004; Section 6.8 of this Edition), high temperature test (Article 6.10.1 of Edition 2004; Section 6.11 of this Edition) and cold test (Article 6.10.2 of Edition 2004; Section 6.12 of this Edition) were modified;

- The relevant installation requirements (Chapter 7 of Edition 2004; Chapter 7 of this Edition) were modified and the safety requirements (Section 7.2 of this Edition) were added;

- The inspection rules (Chapter 8 of Edition 2004; Chapter 8 of this Edition) were modified; the confirmation inspection requirements (Section 8.4 of this Edition) were added;

- The details on nameplates (Article 9.1.1 of Edition 2004; Article 9.1.1 of this Edition) were modified.

Appendix A of this standard is normative.

This standard was proposed by and is under the jurisdiction of the Ministry of Public Security of the People's Republic of China.

Drafting organization of this standard: Traffic Management Research Institute of the Ministry of Public Security.

Participating drafting organization of this standard: Senken Group Co., Ltd.

Chief drafting staffs of this standard: Wang Junhua, Bao Yongqiang, Hu Xinwei, Ma Jingjie, Chen Shisheng and Lu Haifeng.

The previous editions of the standards replaced by this standard are as:

- GB 13954-1992 and GB 13954-2004.

Warning Lamps for Police Cars, Fire Engines, Ambulances and Engineering Rescue Vehicles

警车、消防车、救护车、工程救险车 标志灯具

1 Scope

This standard specifies the terms and definitions, classification and naming, requirements, test methods, installation, inspection rules, marking, conformity certificates as well as packing of warning lamps for police cars, fire engines, ambulances and engineering rescue vehicles (hereinafter referred to as "warning lamps").

This standard is applicable to the warning lamps installed and used on police cars, fire engines, ambulances and engineering rescue vehicles.

2 Normative References

The following normative documents contain provisions which, through reference in this standard, constitute provisions of this standard. For dated reference, subsequent amendments to, or revisions of, any of these publications do not apply. However, all parties coming to an agreement according to this standard are encouraged to study whether the latest editions of these documents are applicable. For undated references, the latest edition of the normative document referred to applies.

GB/T 2423.1 Environmental Testing for Electric and Electronic Products - Part 2: Test Methods - Tests B: Cold (GB/T 2423.1-2008, IEC 60068-2-1: 2007, IDT)

GB/T 2423.2 Environmental Testing for Electric and Electronic Products - Part 2: Test methods - Tests B: Dry heat (GB/T 2423.2-2008, IEC 60068-2-2: 2007, IDT)

GB/T 2423.10 Environmental Testing for Electric and Electronic Products - Part 2: Test Methods - Test Fc: Vibration (Sinusoidal) (GB/T 2423.10-2008, IEC 60068-2-6: 1995, IDT)

GB/T 2423.17 Environmental Testing for Electric and Electronic Products - Part 2: Test Methods - Tests Ka: Salt Mist (GB/T 2423.17-2008, IEC 60068-2-11: 1981, IDT)

GB/T 2828.1 Sampling Procedures for Inspection by Attributes - Part 1: Sampling Schemes Indexed by Acceptance Quality Limit (AQL) for Lot-by-lot Inspection (GB/T 2828.1-2003, ISO 2859-1: 1999, IDT)

GB/T 3785 Electric, Sonic Properties and Measuring Methods for Sound Level Meters

GB/T 3979 Methods of Measuring the Color of Materials

GB 4599-2007 Motor Vehicle Headlamps Equipped with Filament Lamps

GB/T 6739 Paints and Varnishes - Determination of Film Hardness by Pencil Test (GB/T 6739-2006, ISO 15184: 1998, IDT)

GB/T 8417-2003 Colors of Light Signals

GB 15766.1 Lamps for Road Vehicles - Dimensional, Electrical and Luminous



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