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**Light-Signaling Devices and Systems for Motor Vehicles
and Their Trailers**

汽车和挂车光信号装置及系统

(English Translation)

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CONTENTS

Foreword	I
1 Scope	1
2 Normative References	1
3 Terms and Definitions	1
4 Criteria for Determination of One Type.....	3
5 General Requirements.....	3
6 Light Source Requirements	5
7 Requirements for Photometric Characteristics.....	6
8 Colorimetric Requirements for Light-Signaling Devices.....	9
9 Test Methods.....	9
10 Inspection Rules	12
11 Implementation of This Standard.....	13
Annex A (Normative) Special Provisions on Category A2 Front Position Lamps.....	14
Annex B (Normative) Special Provisions on Light-Signaling Projection Function	15
Annex C (Normative) Minimum Light Distribution Angle Range.....	18
Annex D (Normative) Distribution of Luminous Intensity	22

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Light-Signaling Devices and Systems for Motor Vehicles and Their Trailers

1 SCOPE

This document specifies the criteria for determination of one type, general requirements, light source requirements, requirements for photometric characteristics, colorimetric requirements, test methods and inspection rules, with respect to light-signaling devices and systems for motor vehicles and their trailers.

This document is applicable to the design, manufacture and acceptance of light-signaling devices and systems, e.g., front position lamp, rear position lamp, direction-indicator lamp, stop lamp, reversing lamp, end-outline marker lamp, parking lamp, daytime running lamp, rear-registration plate illuminating device, rear fog lamp, manoeuvring lamp, side marker lamp, and light-signaling projection unit, used for motor vehicles of Categories M, N and O.

2 NORMATIVE REFERENCES

The following normative documents contain provisions which, through normative reference in this text, constitute essential provision of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendment) applies.

GB 4785	Prescription for installation of the external lighting and light-signaling devices for motor vehicles and their trailers
UN R37	Uniform provisions concerning the approval of filament light sources for use in approved lamps of power-driven vehicles and of their trailers
UN R128	Uniform provisions concerning the approval of light emitting diode (LED) light sources for use in approved lamp units on power-driven vehicles and their trailers
R.E.5	Consolidated Resolution on the common specification of light source categories (R.E.5)

3 TERMS AND DEFINITIONS

For the purpose of this document, the terms and definitions established in GB 4785 and the following apply.

3.1 light-signaling device

a unit or a group of units used to emit light signals to other road users to indicate the presence or the change of movement of the vehicle and to achieve one or more functions

Note: In this document, it is abbreviated as “device”, including one or more functions, i.e., front position lamp, rear position lamp, direction-indicator lamp, stop lamp, reversing lamp, end-outline marker lamp, parking lamp, daytime running lamp, rear-registration plate illuminating device, rear fog lamp, manoeuvring lamp, side marker lamp, and light-signaling projection unit.

3.2 light-signaling system

a system comprising several devices at one or two sides and their controllers, used to emit light signals to other road users to indicate the presence or the change of movement of the vehicle

Note: In this document, it is abbreviated as “system”.

3.3 stop lamp

the lamp used to indicate to other road users to the rear of the vehicle that the vehicle brake is applying

[Source: GB 4785-2019, 3.9.10, modified]

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