

Railway applications — External visible and audible warning devices for high speed trains —

Part 1: Head, marker and tail lamps

The European Standard EN 15153-1:2007 has the status of a British Standard

ICS 45.060.10

National foreword

This British Standard was published by BSI. It is the UK implementation of EN 15153-1:2007.

The UK participation in its preparation was entrusted by Technical Committee RAE/1, Railway applications, to Panel RAE/1/-/7, Audible and visible warning devices.

A list of organizations represented on this committee can be obtained on request to its secretary.

“Normative”

A (mandatory) requirement defined as an expression in the content of a document conveying criteria to be fulfilled if compliance with the document is to be claimed and from which no deviation is permitted [CEN/CENELEC Internal Regulations, Part 3: Rules for the Structure and Drafting of European Standards (PNE-Rules)].

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This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with a British Standard cannot confer immunity from legal obligations.

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Partie 1: Signaux de face avant, signaux d'extrémité avant
et signaux de face arrière

Bahnanwendungen - Optische und akustische
Warneinrichtungen für Hochgeschwindigkeitszüge - Teil 1:
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This European Standard was approved by CEN on 15 March 2007.

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Contents

Page

Foreword.....	3
1 Scope	4
2 Normative references	4
3 Terms and definitions	4
4 Symbols and abbreviations	5
5 Requirements	5
5.1 General.....	5
5.2 Provision of lamps.....	5
5.3 Head lamps.....	6
5.4 Marker lamps.....	7
5.5 Tail lamps	9
5.6 Control of lamps	10
5.7 Operational check.....	10
6 Test methods.....	10
6.1 Colorimetric tests	10
6.2 Photometric tests.....	12
Annex A (informative) Summary of testing requirements.....	14
Annex B (informative) A-deviations.....	15
Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 96/48/EC as amended by Directive 2004/50/EC	16
Bibliography	17
Table 1 — Colour range intersection point	6
Table 2 — Luminous intensities of head lamps	6
Table 3 — Luminous intensities along set angles	7
Table 4 — Colour range intersection points	7
Table 5 — Colour ratios.....	8
Table 6 — Luminous intensities for lower marker lamps	8
Table 7 — Colour range intersection points	9
Table 8 — Luminous intensities for tail lamps	9
Table 9 — Ageing period for different light source types	11
Table A.1 — Interoperability constituent and subsystem testing requirements	14
Table ZA — Correspondence between this European Standard and Directive 96/48/EC	15

Foreword

This document (EN 15153-1:2007) has been prepared by Technical Committee CEN/TC 256 “Railway applications”, the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by November 2007, and conflicting national standards shall be withdrawn at the latest by November 2007.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this document.

This series of documents *Railway applications — External visible and audible warning devices for high speed trains* consists of the following parts:

— *Part 1: Head, marker and tail lamps*

— *Part 2: Warning horns*

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

1 Scope

This European Standard defines the functional, operational and technical requirements for head, marker and tail lamps for high speed trains, including the requirements for testing and conformity assessment.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

CIE 15, *Colorimetry*¹⁾

CIE 69, *Methods of characterizing illuminance meters and luminance meters; performance, characteristics and specifications*¹⁾

CIE 70, *The measurement of absolute luminous intensity distributions*¹⁾

CIE S 004, *Colours of light signals*¹⁾

ISO/CIE 10527, *CIE standard colorimetric observers*¹⁾

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

high speed train

train which is designed to operate at speeds equal to or greater than 190 km/h

NOTE This includes class 1 and class 2 high speed trains as defined in the HS TSI RS.

3.2

head lamp

white light on the front end of a train, intended to provide visual warning of an approaching train, and to illuminate the lineside

3.3

marker lamp

white signal light on the front end of a train, intended to indicate the presence of a train

3.4

tail lamp

a red signal light on the rear end of a train, intended to indicate the presence of a train

3.5

light source

system for generating light in a lamp

1) To be purchased from: International Commission of Illumination, CIE Central Bureau, Kegelgasse 27, A-1030 Wien