

Road vehicles — Special warning lamps — Dimensions

ICS 43.040.20

National foreword

This British Standard reproduces verbatim ISO 4148:2004 and implements it as the UK national standard.

The UK participation in its preparation was entrusted to Technical Committee AUE/1, Vehicle lighting and signalling, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

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

Cross-references

The British Standards which implement international publications referred to in this document may be found in the *BSI Catalogue* under the section entitled “International Standards Correspondence Index”, or by using the “Search” facility of the *BSI Electronic Catalogue* or of British Standards Online.

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 does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, the ISO title page, pages ii and iii, a blank page, pages 1 to 14, an inside back cover and a back cover.

The BSI copyright notice displayed in this document indicates when the document was last issued.

Amendments issued since publication

Amd. No.	Date	Comments

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 19 November 2004

© BSI 19 November 2004

ISBN 0 580 44811 8

INTERNATIONAL STANDARD

ISO
4148

Fourth edition
2004-11-01

Road vehicles — Special warning lamps — Dimensions

Véhicules routiers — Feux spéciaux d'avertissement — Dimensions



Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 4148 was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Subcommittee SC 8, *Lighting and signalling*.

This fourth edition cancels and replaces the third edition (ISO 4148:1998), which has been technically revised. It also incorporates the Draft amendment ISO 4148:1998/DAmD1.

Road vehicles — Special warning lamps — Dimensions

1 Scope

This International Standard specifies the dimensions of special warning lamps for road vehicles, in order to ensure interchangeability and accurate positioning, bearing in mind the rapid change of light intensity from such devices in a vertical cross-section of the projected beam.

It also specifies (see Annex A) methods for testing the magnetic-base mountings used to install special warning lamps directly on the steel sheet of the roof or body of a vehicle (special warning lamps of Category D).

NOTE In certain countries and international bodies, the term “light” is sometimes used instead of “lamp”.

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.

ISO 2813, *Paints and varnishes — Determination of specular gloss of non-metallic paint films at 20 degrees, 60 degrees and 85 degrees*

ISO 4091, *Road vehicles — Connectors for the electrical connection of towing and towed vehicles — Definitions, tests and requirements*

ISO 4130, *Road vehicles — Three-dimensional reference system and fiducial marks — Definitions*

ISO 4165, *Road vehicles — Electrical connections — Double-pole connection*

ISO 4892 (all parts), *Plastics — Methods of exposure to laboratory light sources*

ISO 9227, *Corrosion tests in artificial atmospheres — Salt spray tests*

3 Terms and definitions

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

3.1

magnetic holder

device used to fix the lamp by magnetic forces on an unalloyed steel surface

3.2

magnetic system

combination of one or more permanent magnets with additional magnetic flux reluctance material for the concentration of the magnetic flux to the holding surface

NOTE Such additional materials could be pots, pole shoes, etc. of unalloyed steel.