September 2015

DIN EN 12368



ICS 93.080.30

Supersedes DIN EN 12368:2006-07 See start of application

Traffic control equipment – Signal heads; English version EN 12368:2015, English translation of DIN EN 12368:2015-09

Anlagen zur Verkehrssteuerung – Signalleuchten; Englische Fassung EN 12368:2015, Englische Übersetzung von DIN EN 12368:2015-09

Equipement de régulation du trafic – Signaux; Version anglaise EN 12368:2015, Traduction anglaise de DIN EN 12368:2015-09

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A comma is used as the decimal marker.

Start of application

The start of application of this standard is 2015-09-01.

It should be noted that, in Germany, CE conformity marking of construction products will be permitted once this standard has been listed in the Official Journal of the European Union and/or the *Bundesanzeiger* (German Federal Gazette) and from the date given therein.

For further information, users of this standard should refer to the websites of the European Commission or of the relevant building authority.

The standard which this document replaces, DIN EN 12368:2006-07, may be used in parallel with this standard during a specified transition period where such has been laid down in the Official Journal of the European Union and/or the *Bundesanzeiger* (German Federal Gazette).

National foreword

This document (EN 12368:2015) has been prepared by Technical Committee CEN/TC 226 "Road equipment" (Secretariat: AFNOR, France).

The responsible German body involved in its preparation was the *DIN-Normenausschuss Bauwesen* (DIN Standards Committee Building and Civil Engineering), Working Committee NA 005-10-24 GA *Anlagen zur Verkehrssteuerung (SpA zu CEN/TC 226/WG 4), Gemeinschaftsausschuss mit FGSV.*

Amendments

This standard differs from DIN EN 12368:2006-07 as follows:

- a) Introduction: Paragraph 6 has been added outlining reasons for possible degradation of optical performance;
- b) Clause 1 "Scope": Individual optical units have been included in addition to the complete signal heads of the previous version;
- c) in Clauses 4 to 8, requirements have been reworded to clearly identify product characteristics as required in the CPR;
- Subclause 4.2 "Signal head": Class V IP65 has been added as some signals are required with higher sealing, for example in tunnels. A warning note has also been added stating that higher sealing levels can lead to risk of trapped moisture;
- e) the former Subclause 4.3 "Mountings, poles with brackets and catenaries" has been removed: the topic is outside the scope of this standard as the infrastructure to which signals are mounted is the subject of other standards. Table ZA.1 and Clause 8 of DoP have been updated accordingly to remove these characteristics;
- Subclause 4.4 "Deflection" has been removed: the infrastructure, poles, gantries, catenaries, etc. are outside the scope of this standard as the infrastructure to which signals are mounted is the subject of other standards. Table ZA.1 and Clause 8 of DoP have been updated accordingly to remove these characteristics;
- g) Subclause 4.3 "Performance under impact product characteristic" has been added;
- h) Subclause 4.4 "Constructional integrity product characteristic" has been added;
- Subclause 5.2 "Electrical safety and EMC characteristic": Additional information has been added about the intended use of signals in a traffic system and that therefore the electrical requirements of EN 50556 are also applicable;
- j) Subclause 6.1 "General": new text has been added stating that whilst it is normally expected that all aspects in a signal would be of the same performance, this can vary for special applications;
- k) Subclause 6.3 "Luminous intensities of signal lights": the allowance for dimming signals has been added;
- Subclause 6.4 "Distribution of luminous intensity": the meaning of "substantially uniform distribution" has been clarified;
- m) Subclause 6.6 "Phantom signal": a Note has been added;

- N) Subclause 6.9 "Background screen of signals" has been simplified. Table 8 concerning background screen sizes has been removed and all subsequent tables have been renumbered (i.e. the former Tables 9 to 17 are now Tables 8 to 14);
- o) Subclause 6.10 "Visible flicker": a new characteristic and a Note have been added;
- p) Clause 7 "Constructional and environmental test methods": clarification with regard to optical units of different diameters has been added;
- q) Table 9: Class AJ2 has been replaced with duration and axis, as AJ2 referred to EN 50556 only for the duration and axis of the tests whereas the spectrum was always defined in EN 12368;
- r) Subclause 8.1 "General": test tolerances, tolerances of optical measurement and measurement of environmental temperature have been clarified;
- s) Subclause 8.2 "Measurement of luminous intensities": a method of stabilization has been added;
- t) Subclause 8.3 "Measurement of luminance for uniformity tests": the method has been clarified;
- u) Subclause 8.4 "Measurement of phantom signal": the specification for the illuminance source has been changed to simplify the equipment needed;
- v) Subclause 8.6 "Measurement of combined colours": the need to plot colours on the chromaticity diagram (Figure 3) has been clarified;
- w) Subclause 10.1 "Marking and labelling": labelling requirements have been changed, diameter and dimmed operation have been added;
- x) Subclause 10.2 "Product information": the definition of the reference axis has been clarified by including the reference centre and the relationship to the light emitting surface. Instructions for safe use as required in the CPR article 11.6 have also been added;
- y) Clause 11 "Assessment and verification of constancy of performance AVCP" has been aligned with CPR and Table 15 has been removed as it is not part of the revised AVCP;
- Subclause 11.2.2 "Test samples, testing and compliance criteria" has been expanded to cover alternative types of enclosures;
- aa) Table A.1 "Test, declarations and requirements": Performance parameter "Dimmed operation" has been added;
- bb) Annex ZA has been aligned with Annex ZA format for CPR;
- cc) Table ZA.1: the scope has been extended for signals with dimming function to include the dimming performance and, where provided, the possible use of hoods and visors;
- dd) Table ZA.2: "Intended use(s)" has been expanded to include the possible use of visors and hoods;
- ee) Figure ZA.1 has been updated to indicate diameter and dimming performance.

Previous editions

DIN EN 12368: 2000-03, 2006-07

EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN 12368

June 2015

ICS 93.080.30

Supersedes EN 12368:2006

English Version

Traffic control equipment - Signal heads

Equipement de régulation du trafic - Signaux

Anlagen zur Verkehrssteuerung - Signalleuchten

This European Standard was approved by CEN on 11 January 2015.

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