Elektromagnetiline ühilduvus. Teeliikluse signaalisüsteemid . Tootestandard

Electromagnetic compatibility - Road traffic signal systems - Product standard

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 50293:2002 sisaldab Euroopa standardi EN 50293:2000 ingliskeelset teksti. Käesolev dokument on jõustatud 07.08.2002 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes. Standard on kättesaadav Eesti standardiorganisatsioonist.	This Estonian standard EVS-EN 50293:2002 consists of the English text of the European standard EN 50293:2000. This document is endorsed on 07.08.2002 with the notification being published in the official publication of the Estonian national standardisation organisation. The standard is available from Estonian standardisation organisation.

Käsitlusala: This product standard for EMC requirements applies to road traffic signal systems. The range of products included within the scope of this standard are road traffic signal systems and devices including for example signal heads, signalling devices and traffic signs, controller and housing, supports, interconnections, links, traffic detectors, monitoring equipment, electrical supply.	**Scope:** This product standard for EMC requirements applies to road traffic signal systems. The range of products included within the scope of this standard are road traffic signal systems and devices including for example signal heads, signalling devices and traffic signs, controller and housing, supports, interconnections, links, traffic detectors, monitoring equipment, electrical supply.

ICS 33.100.01, 93.080.30

Võtmesõnad: detector circuits, electrical safety, safety, signal dev, signal lights, signal systems, signal transmitters, signalling system, specification (approval), specifications, testing, traffic lights, traffic signals, traffic signs, transportation, transportation safety

EUROPEAN STANDARD **EN 50293**

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English version

Electromagnetic compatibility - Road traffic signal systems - Product standard

Compatibilité électromagnétique - Systèmes de signaux de circulation routière - Norme de produit

Elektromagnetische Verträglichkeit - Strassenverkehrs-Signalanlagen - Produktnorm

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CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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Foreword

This European Standard has been prepared by the CENELEC BTTF 69-3 (TC 214 WG1), Road traffic signal systems.

The text of the draft was submitted to the formal vote and was approved by CENELEC as EN 50293 on 2000-04-01.

The following dates were fixed:

– latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2001-06-01
– latest date by which the national standards conflicting with the EN have to be withdrawn	(dow)	2003-04-01

Contents

1 General

1.1 Scope

This product standard for EMC requirements applies to road traffic signal systems. The range of products included within the scope of this standard are road traffic signal systems and devices including for example signal heads, signalling devices and traffic signs, controller and housing, supports, interconnections, links, traffic detectors, monitoring equipment, electrical supply. Road traffic signal systems operating in conjunction with other systems e.g. public lighting, railway systems shall also comply with the respective standard and shall not reduce the safety of all the equipment. Central Office equipment is excluded from this standard. Items with a radio-communication function shall also refer to the European ETSI standards.

1.2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

When the international publication has been modified by CENELEC common modifications, indicated by (mod), the relevant EN/HD applies.

HD 638	Road traffic signal systems
EN 12368	Signal Heads
EN 12675	Traffic Signal Controllers
EN 55014 series	Electromagnetic compatibility (EMC) - Requirements for household appliances, electrical tools and similar electrical apparatus (CISPR 14 series)
EN 55022	Information technology equipment Radio disturbance characteristics Limits and methods of measurement (CISPR 22, mod)
EN 61000-3-2	Electromagnetic compatibility (EMC) Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase) (IEC 61000-3-2, mod) NOTE The requirements of this standard shall apply when it comes into force (see CENELEC report R210-007)
EN 61000-3-3	Part 3-3: Limits - Limitation of voltage fluctuations and flicker in low-voltage supply systems for equipment with rated current up to and including 16 A (IEC 61000-3-3) NOTE The requirements of this standard shall apply when it comes into force (see CENELEC report R210-007)
EN 61000-4-2	Part 4-2: Testing and measuring techniques - Electrostatic discharge immunity test (IEC 61000-4-2)
EN 61000-4-3	Part 4-3: Testing and measuring techniques - Radiated, radio frequency electromagnetic field immunity test (IEC 61000-4-3, mod)
EN 61000-4-4	Part 4-4: Testing and measuring techniques - Electrical fast transient/burst immunity test (IEC 61000-4-4)
EN 61000-4-5	Part 4-5: Testing and measuring techniques - Surge immunity test (IEC 61000-4-5)
EN 61000-4-6	Part 4-6: Testing and measuring techniques - Immunity to conducted disturbances, induced by radio-frequency fields (IEC 61000-4-6)
EN 61000-4-8	Part 4-8: Testing and measuring techniques - Power frequency magnetic field immunity test (IEC 61000-4-8)
EN 61000-4-11	Part 4-11: Testing and measuring techniques - Voltage dips, short interruptions and voltage variations immunity tests (IEC 61000-4-11)