



SLOVENSKI STANDARD
SIST EN 60921:1995

01-december-1995

Ballasts for tubular fluorescent lamps - Performance requirements (IEC 921:1988 + corrigendum April 1989, modified)

Ballasts for tubular fluorescent lamps - Performance requirements

Vorschaltgeräte für röhrenförmige Leuchtstofflampen - Anforderungen an die Arbeitsweise

Ballasts pour lampes tubulaires à fluorescence - Prescriptions de performances

Ta slovenski standard je istoveten z: EN 60921:1991/A2:1995

SIST EN 60921:1995
<https://standards.iteh.ai/catalog/standards/sist/19cc2526-1f80-4537-92d6-0706966911af/sist-en-60921-1995>

ICS:

29.140.30 Fluorescenčne sijalke. Sijalke Fluorescent lamps.
Discharge lamps

SIST EN 60921:1995

en

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EUROPEAN STANDARD

EN 60921

NORME EUROPEENNE

EUROPÄISCHE NORM

April 1991

UDC 621.327.5:621.316.8

Descriptors: Lighting equipment, fluorescent lamp, tubular lamp,
reference ballast, marking, construction characteristic,
performance characteristic, test

ENGLISH VERSION

**BALLASTS FOR TUBULAR FLUORESCENT LAMPS
PERFORMANCE REQUIREMENTS**

(IEC 921:1988 + corrigendum April 1989, modified)

Ballasts pour lampes

tubulaires à fluorescence

Prescriptions de performances

(CEI 921:1988 + corrigendum

avril 1989, modifiée)

Vorschaltgeräte für

röhrenförmige Leuchtstofflampen

Anforderungen an die Arbeitsweise

(IEC 921:1988 + Corrigendum

April 1989, modifiziert)

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This European Standard was approved by CENELEC on 1991-03-15.

CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

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

Central Secretariat: rue de Stassart 35, B-1050 Brussels

FOREWORD

The CENELEC questionnaire procedure, performed for finding out whether or not the International Standard IEC 921:1988, as corrected by corrigendum April 1989, could be accepted without textual changes, has shown that some CENELEC common modifications were necessary for the acceptance as European Standard.

The reference document, together with the common modifications prepared by the CENELEC Technical Committee TC 34Z, was submitted to the CENELEC members for formal vote.

The text of the draft was approved by CENELEC as EN 60921 on 15 March 1991.

The following dates were fixed:

- latest date of publication of
an identical national standard (dop) 1992-03-01
- latest date of withdrawal of
conflicting national standards (dow) 1992-03-01

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For products which have complied with the relevant national standard before 1992-03-01, as shown by the manufacturer's certification body, this previous standard may continue to apply to production until 1997-03-01.

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Annexes designated "normative" are part of the body of the standard. In this standard, annex ZA is normative.

ENDORSEMENT NOTICE

The text of the International Standard IEC 921:1988 with its corrigendum April 1989 was approved by CENELEC as a European Standard with agreed common modifications as given below.

COMMON MODIFICATIONS

4.3 Delete.

11.1 Delete the second paragraph.

Replace Table I and the associated note with the following:

Table I
Maximum value of the harmonics

Harmonic	Maximum value expressed as a percentage of fundamental current for the ballast
2	5
3	$30 \times \lambda$
5	7
7	4
9	3

λ is the circuit power-factor .

13. Delete note 2.

ANNEX ZA (normative)

OTHER INTERNATIONAL PUBLICATIONS QUOTED IN THIS STANDARD
WITH THE REFERENCES OF THE RELEVANT EUROPEAN PUBLICATIONS

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

<u>IEC Publication</u>	<u>Date</u>	<u>Title</u>	<u>EN/HD</u>	<u>Date</u>
81	1984	Tubular fluorescent lamps for general lighting service	EN 60081*	1989
155, mod	1983	Starters for tubular fluorescent lamps	EN 60155**	1989
410	1973	Sampling plans and procedures for inspection by attributes	-	-
901	1987	Single-capped fluorescent lamps Safety and performance requirements	EN 60901	1990
920	1990	Ballasts for tubular fluorescent lamps - General and safety requirements	EN 60920	1991
927	1988	Starting devices (other than glow starters) - Performance requirements	EN 60927	1990
928	1990	A.C. supplied electronic ballasts for tubular fluorescent lamps General and safety equipment	EN 60928	1991

* Also endorses IEC amendments 1:1987 and 2:1988

** Also endorses IEC amendment 1:1987

EUROPEAN STANDARD

EN 60921/A1

NORME EUROPEENNE

EUROPÄISCHE NORM

July 1992

UDC 621.327.5:621.316.8

Descriptors: Lighting equipment, fluorescent lamp, tubular lamp,
reference ballast, marking, construction characteristic,
performance characteristic, test

Amendment A1 to the English version EN 60921

Ballasts for tubular fluorescent lamps
Performance requirements
(IEC 921:1988/A1:1990)

Ballasts pour lampes tubulaires
à fluorescence - Prescriptions
de performances
(CEI 921:1988/A1:1990)

Vorschaltgeräte für röhrenförmige
Leuchtstofflampen - Anforderungen
an die Arbeitsweise
(IEC 921:1988/A1:1990)

This amendment A1 modifies the European Standard EN 60921. It was approved by CENELEC on 1992-06-16. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This amendment exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

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

Central Secretariat: rue de Stassart 35, B-1050 Brussels

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Ref. No. EN 60921:1991/A1:1992 E

FOREWORD

The CENELEC questionnaire procedure, performed for finding out whether or not amendment A1:1990 to the International Standard IEC 921:1988 could be accepted without textual changes, has shown that no common modifications were necessary for the acceptance as an amendment to the European Standard.

The reference document was submitted to the CENELEC members for formal vote and was approved by CENELEC as amendment A1 to EN 60921:1988 on 16 June 1992.

The following dates were fixed:

- latest date of publication of an identical national standard (dop) 1993-06-01
- latest date of withdrawal of conflicting national standards (dow) 1993-06-01

For products which have complied with EN 60921:1991 before 1993-06-01, as shown by the manufacturer or by a certification body, this previous standard may continue to apply for production until 1998-06-01.

Annexes designated "normative" are part of the body of the standard. In this standard, annex ZA is normative.

ENDORSEMENT NOTICE

The text of amendment A1:1990 to the International Standard IEC 921:1988 was approved by CENELEC as an amendment to the European Standard without any modification.

Editorial correction of IEC 921/A1 (English only):

On page 9 the title of A5.1 should read:
"For lamps operated with starter".

ANNEX ZA (normative)

OTHER INTERNATIONAL PUBLICATIONS QUOTED IN THIS STANDARD
WITH THE REFERENCES OF THE RELEVANT EUROPEAN PUBLICATIONS

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

IEC Publication	Date	Title	EN/HD	Date
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555-2, mod	1982	Disturbances in supply systems caused by	EN 60555-2*	1987
+ A2	1988	household appliances and similar electrical equipment - Part 2: Harmonics	-	-

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* EN 60555-2 includes A1:1985 to IEC 555-2

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**NORME
INTERNATIONALE
INTERNATIONAL
STANDARD**

**CEI
IEC
921**

Première édition
First edition
1988-07

**Ballasts pour lampes tubulaires à fluorescence –
Prescriptions de performances**

iTeh STANDARD PREVIEW
**Ballasts for tubular fluorescent lamps –
(standards.iteh.ai)
Performance requirements**

SIST EN 60921:1995

<https://standards.iteh.ai/catalog/standards/sist/f9ce2326-f80-4537-92d6-0706966911af/sist-en-60921-1995>

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Международная Электротехническая Комиссия

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

BALLASTS FOR TUBULAR FLUORESCENT LAMPS**Performance requirements**

FOREWORD

- 1) The formal decisions or agreements of the IEC on technical matters, prepared by Technical Committees on which all the National Committees having a special interest therein are represented, express, as nearly as possible, an international consensus of opinion on the subjects dealt with.
- 2) They have the form of recommendations for international use and they are accepted by the National Committees in that sense.
- 3) In order to promote international unification, the IEC expresses the wish that all National Committees should adopt the text of the IEC recommendation for their national rules in so far as national conditions will permit. Any divergence between the IEC recommendation and the corresponding national rules should, as far as possible, be clearly indicated in the latter.

PREFACE

This standard has been prepared by Sub-Committee 34C: Auxiliaries for Discharge Lamps, of IEC Technical Committee No. 34: Lamps and Related Equipment.

The text of this standard is based on the following documents:

Six Months' Rule	Report on Voting
34C(CO)143	34C(CO)154

Full information on the voting for the approval of this standard can be found in the Voting Report indicated in the above table.

The following IEC publications are quoted in this standard:

- Publications Nos. 81 (1984): Tubular fluorescent lamps for general lighting service.
 155 (1983): Starters for tubular fluorescent lamps.
 410 (1973): Sampling plans and procedures for inspection by attributes.
 901 (1987): Single-capped fluorescent lamps — Safety and performance requirements.
 920 (—): Ballasts for tubular fluorescent lamps — General and safety requirements.
 927 (—): Starting devices (other than glow starters) — Performance requirements.
 928 (—): A.C. supplied electronic ballasts for tubular fluorescent lamps — General and safety equipment.