



**SLOVENSKI STANDARD**  
**SIST EN 60929:1995/A2:2001**  
**01-marec-2001**

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**A.C. supplied electronic ballasts for tubular fluorescent lamps - Performance requirements**

A.C. supplied electronic ballasts for tubular fluorescent lamps - Performance requirements

Wechselstromversorgte elektronische Vorschaltgeräte für röhrenförmige Leuchtstofflampen - Anforderungen an die Arbeitsweise

Ballasts électroniques alimentés en courant alternatif pour lampes tubulaires à fluorescence - Prescriptions de performances

SIST EN 60929:1995/A2:2001  
<https://standards.iteh.ai/catalog/standards/sist/7c2a23aa-d44c-446f-8481-ce84cdb3d98a/sist-en-60929-1995-a2-2001>

**Ta slovenski standard je istoveten z: EN 60929:1992/A2:1996**

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**ICS:**

29.140.30 Fluorescent lamps.  
Discharge lamps

**SIST EN 60929:1995/A2:2001 en**

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[SIST EN 60929:1995/A2:2001](#)

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EUROPEAN STANDARD

EN 60929/A2

NORME EUROPÉENNE

EUROPÄISCHE NORM

August 1996

UDC 621.327:620.1  
ICS 29.140.30

Descriptors: Tubular lamp, fluorescent lamp, electrical ballast, a.c., specification, electrical starting test, operating condition, marking

English version

**A.C. supplied electronic ballasts for tubular fluorescent lamps**  
**Performance requirements**  
**(IEC 929:1990/A2:1996)**

Ballasts électroniques alimentés en  
 courant alternatif pour lampes tubulaires  
 à fluorescence - Prescriptions de  
 performances  
 (CEI 929:1990/A2:1996)

Wechselstromversorgte elektronische  
 Vorschaltgeräte für röhrenförmige  
 Leuchtstofflampen - Anforderungen  
 an die Arbeitsweise  
 (IEC 929:1990/A2:1996)

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This amendment A2 modifies the European Standard EN 60929:1992; it was approved by CENELEC on 1996-07-02. 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

### Foreword

The text of document 34C/331/FDIS, future amendment 2 to IEC 929:1990, prepared by SC 34C, Auxiliaries for lamps, of IEC TC 34, Lamps and related equipment, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as amendment A2 to EN 60929:1992 on 1996-07-02.

The following dates were fixed:

- latest date by which the amendment has to be implemented  
at national level by publication of an identical  
national standard or by endorsement (dop) 1997-04-01
- latest date by which the national standards conflicting  
with the amendment have to be withdrawn (dow) 1997-04-01

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### Endorsement notice

The text of amendment 2:1996 to the International Standard IEC 929:1990 was approved by CENELEC as an amendment to the European Standard without any modification.

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ce84cdb3d98a/sist-en-60929-1995-a2-2001](https://standards.iteh.ai/catalog/standards/sist/7c2a23aa-d44c-446f-8481-ce84cdb3d98a/sist-en-60929-1995-a2-2001)

**NORME  
INTERNATIONALE  
INTERNATIONAL  
STANDARD**

**CEI  
IEC  
929**

1990

AMENDEMENT 2  
AMENDMENT 2

1996-05

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Amendement 2

**Ballasts électroniques alimentés en courant  
alternatif pour lampes tubulaires à fluorescence –  
Prescriptions de performances**

**iTeh STANDARD PREVIEW**

**Amendment 2**  
([standards.iteh.ai](https://standards.iteh.ai))

**AC-supplied electronic ballasts for tubular  
fluorescent lamps –  
Performance requirements**

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Bureau Central de la Commission Electrotechnique Internationale 3, rue de Varembe Genève, Suisse



Commission Electrotechnique Internationale  
International Electrotechnical Commission  
Международная Электротехническая Комиссия

CODE PRIX  
PRICE CODE

**C**

*Pour prix, voir catalogue en vigueur  
For price, see current catalogue*

## FOREWORD

This amendment has been prepared by sub-committee 34C: Auxiliaries for lamps, of IEC technical committee 34: Lamps and related equipment.

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

FDIS	Report on voting
34C/331/FDIS	34C/378/RVD

Full information on the voting for the approval of this amendment can be found in the report on voting indicated in the above table.

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## CONTENTS

Add the title of the new annex F as follows:

F - A guide to quoting product life and failure rate

SIST EN 60929:1995/A2:2001

Add, after annex E (amendment 1), the following new annex F:

<https://standards.iteh.ai/catalog/standards/sist/7c2a23aa-d44c-446f-8481-cc84cd05d96a/sist-en-60929-1995-a2-2001>

## Annex F (informative)

### A guide to quoting product life and failure rate

**F.1** To allow the lifetime and failure rate of different electronic products to be meaningfully compared by a user it is recommended that the data defined in clauses F.2 and F.3 are provided by the manufacturer in a product catalogue.

**F.2** The maximum surface temperature, symbol  $t_f$  (t-lifetime) of the electronic product or the maximum part temperature which affects product life, measured under normal operating conditions and at the nominal voltage or at the maximum of the rated voltage range, that allows a life of 50 000 h to be achieved.

NOTE - In some countries, like Japan, a life of 40 000 h should be applied.

**F.3** The failure rate, if the electronic product is operated continuously at the maximum temperature  $t_f$  (defined in clause F.2). Failure rate should be quoted in units of failure in time (fit).

**F.4** For the method used to obtain the information given in clauses F.2 and F.3 (mathematical analysis, reliability test etc.), the manufacturer should, on request, provide a comprehensive data file containing the details of the method.

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