



SLOVENSKI STANDARD

SIST EN 61821:2012

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Nadomešča:
SIST EN 61821:2003

Električne inštalacije za razsvetljavo in radijske javljalnike na letališčih - Vzdrževanje zaporednih tokokrogov, napajanih s konstantnim tokom, za talno razsvetljavo letališč

Electrical installations for lighting and beaconing of aerodromes - Maintenance of aeronautical ground lighting constant current series circuits

Elektrische Anlagen für Beleuchtung und Befeuerung von Flugplätzen - Wartung von Konstantstrom-Serienstromkreisen für Flugplatzbefeuerungsanlagen

Installations électriques pour l'éclairage et le balisage des aérodromes - Maintenance des circuits série à courant constant pour le balisage aéronautique au sol

Ta slovenski standard je istoveten z: EN 61821:2011

ICS:

29.140.50	Instalacijski sistemi za razsvetljavo	Lighting installation systems
93.120	Gradnja letališč	Construction of airports

SIST EN 61821:2012 en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 61821

November 2011

ICS 29.140.50; 93.120

Supersedes EN 61821:2003

English version

**Electrical installations for lighting and beaconing of aerodromes -
Maintenance of aeronautical ground lighting constant current series
circuits**
(IEC 61821:2011)

Installations électriques pour l'éclairage et
le balisage des aérodromes -
Maintenance des circuits série à courant
constant pour le balisage aéronautique au
sol
(CEI 61821:2011)

Elektrische Anlagen für Beleuchtung und
Befeuerung von Flugplätzen -
Wartung von Konstantstrom-
Serienstromkreisen für
Flugplatzbefeuerungsanlagen
(IEC 61821:2011)

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This European Standard was approved by CENELEC on 2011-11-03. 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 CEN-CENELEC Management Centre 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 CEN-CENELEC Management Centre has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

CENELEC

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

Management Centre: Avenue Marnix 17, B - 1000 Brussels

Foreword

The text of document 97/153/FDIS, future edition 2 of IEC 61821, prepared by IEC/TC 97 "Electrical installations for lighting and beaconing of aerodromes" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 61821:2011.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2012-08-03
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2014-11-03

This document supersedes EN 61821:2003.

EN 61821:2011 includes the following significant technical changes with respect to EN 61821:2003:

- a) addition of references to normative references;
- b) addition of notes in Clauses 5, 6 and 7;
- c) modification of pre-work procedures in item e) of 7.2.2.

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Endorsement notice

The text of the International Standard IEC 61821:2011 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 61822	NOTE	Harmonized as EN 61822.
IEC 61823	NOTE	Harmonized as EN 61823.

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

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.

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

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60903	-	Live working - Gloves of insulating material	EN 60903	-

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IEC 61821

Edition 2.0 2011-09

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Electrical installations for lighting and beaconing of aerodromes – Maintenance of aeronautical ground lighting constant current series circuits

Installations électriques pour l'éclairage et le balisage des aérodromes – Maintenance des circuits série à courant constant pour le balisage aéronautique au sol

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**ELECTRICAL INSTALLATIONS FOR LIGHTING
AND BEACONING OF AERODROMES –
MAINTENANCE OF AERONAUTICAL GROUND LIGHTING
CONSTANT CURRENT SERIES CIRCUITS**

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 61821 has been prepared by IEC technical committee 97: Electrical installations for lighting and beaconing of aerodromes.

This second edition cancels and replaces the first edition published in 2002. It is a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) addition of references to normative references;
- b) addition of notes in Clauses 5, 6 and 7;
- c) modification of pre-work procedures in item e) of 7.2.2.

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

FDIS	Report on voting
97/153/FDIS	97/154/RVD

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

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

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INTRODUCTION

This International Standard contains the management, safety and procedural requirements specific to the maintenance of an aeronautical ground lighting (AGL) constant current series circuit and has taken into consideration existing national standards, requirements and practices. The maintenance activities are required to ensure that the AGL constant current series circuit continues to meet the operational requirements and minimize the occurrence of operational failures.

To conform to this International Standard it should be demonstrated to the relevant bodies that the requirements have been satisfied and therefore that the clause objective(s) has (have) been met.

NOTE Examples of relevant bodies would include the following:

- certification and licensing authorities;
- safety regulators;
- notified bodies for international or European directives;
- national standards bodies.

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ELECTRICAL INSTALLATIONS FOR LIGHTING AND BEACONING OF AERODROMES – MAINTENANCE OF AERONAUTICAL GROUND LIGHTING CONSTANT CURRENT SERIES CIRCUITS

1 Scope

This International Standard applies to the maintenance of AGL constant current series circuits.

This International Standard

- covers constant current series circuits for AGL installed at aerodromes and heliports;
- concentrates on providing the safety requirements for the maintenance of an AGL constant current series circuit. It is recognized that AGL constant current series circuits of different design characteristics and parameters are in existence;
- is mainly concerned with safety to persons by specifying the rules and fundamental principles for the maintenance of AGL constant current series circuits;
- is not intended to apply to AGL primary series circuits supplied directly from a mains constant voltage source;
- is not intended to be used for public street lighting, roadway lighting or any other installation requiring the use of constant current series circuits.

2 Normative references

[SIST EN 61821:2012](#)

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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.

IEC 60903, *Live working – Gloves of insulating material*

3 Terms and definitions

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

3.1

aerodrome authority

organization accountable for the operational safety and security of persons, aircraft operations and facilities at an aerodrome

NOTE Temporally the occupational safety for third party personal, contracted for AGL work on non-operational areas, can be delegated to the third party contractor if the evidence of professional skills, knowledge of the behavior rules and the separation to the airport operation area is given and documented.

3.2

AGL constant current series circuit

apparatus configured as an electrical circuit designed to produce and operate with a constant current, independent of specified load variations, in order to provide a specified light for aeronautical purposes

3.3

AGL operator

person responsible for the control of the AGL to permit the safe movement of aircraft