



NSAI
Standards

Irish Standard
I.S. EN 61347-2-9:2013

Lamp controlgear -- Part 2-9: Particular requirements for electromagnetic controlgear for discharge lamps (excluding fluorescent lamps) (IEC 61347-2-9:2012 (EQV))

I.S. EN 61347-2-9:2013

Incorporating amendments/corrigenda issued since publication:

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EUROPEAN STANDARD

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Supersedes EN 61347-2-9:2001 + corr. Jul.2003 + corr. Dec.2010 + A1:2003 + A2:2006

English version

**Lamp controlgear -
Part 2-9: Particular requirements for electromagnetic controlgear for
discharge lamps (excluding fluorescent lamps)
(IEC 61347-2-9:2012)**

Appareillages de lampes -
Partie 2-9: Exigences particulières pour
les appareillages électromagnétiques pour
lampes à décharge (à l'exclusion des
lampes fluorescentes)
(CEI 61347-2-9:2012)

Geräte für Lampen -
Teil 2-9: Besondere Anforderungen an
elektromagnetische Betriebsgeräte für
Entladungslampen (ausgenommen
Leuchtstofflampen)
(IEC 61347-2-9:2012)

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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 34C/1022/FDIS, future edition 2 of IEC 61347-2-9, prepared by SC 34C, "Auxiliaries for lamps", of IEC TC 34, "Lamps and related equipment" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 61347-2-9:2013.

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) 2013-09-04
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2015-12-04

This document supersedes EN 61347-2-9:2001 + corr. Jul.2003 + corr. Dec.2010 + A1:2003 + A2:2006.

EN 61347-2-9:2013 includes the following significant technical changes with respect to EN 61347-2-9:2001:

- a) the addition of a new Clause 14;
- b) the word "ballast" is changed to "electromagnetic controlgear".

This standard shall be used in conjunction with EN 61347-1.

This Part 2-9 supplements or modifies the corresponding clauses in EN 61347-1, so as to convert that publication into the European Standard: Particular requirements for electromagnetic controlgear for discharge lamps (excluding fluorescent lamps).

Where the requirements of any of the clauses of EN 61347-1 are referred to in this standard by the phrase "The requirements of clause n of EN 61347-1 apply", this phrase is interpreted as meaning that all requirements of the clause in question of Part 1 apply, except any which are clearly inapplicable to the specific type of lamp controlgear covered by this particular part of EN 61347-2.

NOTE In this standard, the following print types are used:

- Requirements proper: in roman type.
- *Test specifications: in italic type.*
- Explanatory matter: in smaller roman type.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

This standard covers the Principle Elements of the Safety Objectives for Electrical Equipment Designed for Use within Certain Voltage Limits (LVD - 2006/95/EC).

Endorsement notice

The text of the International Standard IEC 61347-2-9:2012 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 60923	NOTE	Harmonized as EN 60923.
IEC 61167	NOTE	Harmonized as EN 61167.
IEC 61347-2-8	NOTE	Harmonized as EN 61347-2-8.

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. 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 60188	-	High-pressure mercury vapour lamps - Performance specifications	EN 60188	-
IEC 60192	-	Low pressure sodium vapour lamps - Performance specifications	EN 60192	-
IEC 60598-1	-	Luminaires - Part 1: General requirements and tests	EN 60598-1	-
IEC 60662	-	High pressure sodium vapour lamps - Performance specifications	EN 60662	-
IEC 61347-1 (mod) + A1	2007 2010	Lamp controlgear - Part 1: General and safety requirements	EN 61347-1 + A1	2008 2011
IEC 61347-2-1	-	Lamp controlgear - Part 2-1: Particular requirements for starting devices (other than glow starters)	EN 61347-2-1	-
IEC 62035 (mod)	-	Discharge lamps (excluding fluorescent lamps) - Safety specifications	EN 62035	-

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

LAMP CONTROLGEAR –

Part 2-9: Particular requirements for electromagnetic controlgear for discharge lamps (excluding fluorescent lamps)

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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- 9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 61347-2-9 has been prepared by subcommittee 34C: Auxiliaries for lamps, of IEC technical committee 34: Lamps and related equipment.

This second edition cancels and replaces the first edition published in 2000, Amendment 1:2003 and Amendment 2:2006. This edition constitutes a technical revision.

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

- a) the addition of a new Clause 14;
- b) the word "ballast" is changed to "electromagnetic controlgear".

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

FDIS	Report on voting
34C/1022/FDIS	34C/1028/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.

This standard shall be used in conjunction with IEC 61347-1.

This Part 2-9 supplements or modifies the corresponding clauses in IEC 61347-1, so as to convert that publication into the IEC Standard: Particular requirements for electromagnetic controlgear for discharge lamps (excluding fluorescent lamps).

Where the requirements of any of the clauses of IEC 61347-1 are referred to in this standard by the phrase "The requirements of clause n of IEC 61347-1 apply", this phrase is interpreted as meaning that all requirements of the clause in question of Part 1 apply, except any which are clearly inapplicable to the specific type of lamp controlgear covered by this particular part of IEC 61347-2.

NOTE In this standard, the following print types are used:

- Requirements proper: in roman type.
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- Explanatory matter: in smaller roman type.

A list of all parts of the IEC 61347 series, published under the general title *Lamp controlgear*, can be found on the IEC website.

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.

INTRODUCTION

This second edition of IEC 61347-2-9 is published in conjunction with IEC 61347-1. The formatting into separately published parts provides for ease of future amendments and revisions. Additional requirements will be added as and when a need for them is recognized.

This standard, and the parts which make up IEC 61347-2, in referring to any of the clauses of IEC 61347-1, specify the extent to which such a clause is applicable and the order in which the tests are to be performed; they also include additional requirements, as necessary. All parts which make up IEC 61347-2 are self-contained and, therefore, do not include references to each other.

LAMP CONTROLGEAR –

Part 2-9: Particular requirements for electromagnetic controlgear for discharge lamps (excluding fluorescent lamps)

1 Scope

This part of the IEC 61347 series specifies particular safety requirements for electromagnetic controlgear for discharge lamps such as high-pressure mercury vapour, low-pressure sodium vapour, high-pressure sodium vapour and metal halide lamps. The standard covers inductive-type electromagnetic controlgear for use on a.c. supplies up to 1 000 V at 50 Hz or 60 Hz, associated with discharge lamps, having rated wattages, dimensions and characteristics as specified in IEC 60188, IEC 60192 and IEC 60662.

This standard applies to complete electromagnetic controlgear and to their component parts such as reactors, transformers and capacitors. Particular requirements for thermally protected electromagnetic controlgear are given in Annex B.

For certain types of discharge lamps, an ignitor is required.

NOTE Electromagnetic controlgear for fluorescent lamps are covered by IEC 61347-2-8.

Performance requirements are the subject of IEC 60923.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60188, *High-pressure mercury vapour lamps – Performance specifications*

IEC 60192, *Low-pressure sodium vapour lamps – Performance specifications*

IEC 60598-1, *Luminaires – Part 1: General requirements and tests*

IEC 60662, *High-pressure sodium vapour lamps – Performance specifications*

IEC 61347-1:2007, *Lamp controlgear – Part 1: General and safety requirements Amendment 1:2010*

IEC 61347-2-1, *Lamp controlgear – Part 2-1: Particular requirements for starting devices (other than glow starters)*

IEC 62035, *Discharge lamps (excluding fluorescent lamps) – Safety specifications*

3 Terms and definitions

For the purpose of this document, the terms and definitions given in IEC 61347-1:2007, together with the following apply:

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