BS EN 61347-2-11:2001+A1:2019

Incorporating corrigenda December 2001 and December 2010



BSI Standards Publication

Lamp controlgear

Part 2-11: Particular requirements for miscellaneous electronic circuits used with luminaires



National foreword

This British Standard is the UK implementation of EN 61347-2-11:2001+A1:2019, incorporating corrigendum December 2010. It is identical to IEC 61347-2-11:2001, incorporating corrigendum December 2001 and amendment 1:2019. It supersedes BS EN 61347-2-11:2002, which will be withdrawn on 14 June 2022.

The start and finish of text introduced or altered by amendment is indicated in the text by tags. Tags indicating changes to IEC text carry the number of the IEC amendment. For example, text altered by IEC amendment A1 is indicated by A1.

The UK participation in its preparation was entrusted to Technical Committee CPL/34/3, Auxiliaries for lamps.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 7 March 2002.

Amendments/corrigenda issued since publication

Date	Text affected
31 July 2011	Implementation of CENELEC corrigendum EN 61347-1 in revised CENELEC European foreword
31 August 2019	Implementation of IEC amendment 1:2019 with CENELEC endorsement A1:2019
31 August 2019	Publication year in identifier changed from 2002 to 2001 to match the CENELEC core standard

EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

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English Version

Lamp controlgear - Part 2-11: Particular requirements for miscellaneous electronic circuits used with luminaires

Appareillages de lampes - Partie 2-11: Prescriptions particulières pour circuits électroniques divers utilisés avec les luminaires Geräte für Lampen - Teil 2-11: Besondere Anforderungen an elektronische Module für Leuchten

This European Standard was approved by CENELEC on 2001-07-01. 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, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.



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European foreword

The text of document (34C/528/FDIS), future edition 1 of IEC 61347-2-11, 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 61347-2-11:2001 on 2001-07-01.

The following dates were fixed:

- latest date by which the document has to be implemented at national level (dop) 2004-07-01 by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the EN have to (dow) 2004-07-01 be withdrawn

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

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

- requirements: in roman type;
- test specifications: in italic type;
- notes: in small roman type.

Annexes designated "normative" are part of the body of the standard.

In this standard, annex ZA is normative.

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 61347-2-11:2001 was approved by CENELEC as a European Standard without any modification.

Foreword to amendment A1

The text of document (34C/1328/FDIS), future IEC 61347-2-11: 2001/A1, 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 61347-2-11: 2001/A1: 2019.

The following dates are fixed:

- latest date by which the document has to be implemented at national level (dop) 2019-12-14 by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the document (dow) 2022-06-14 have to be withdrawn

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

This document has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For the relationship with EU Directive(s) see informative Annex ZZ, which is an integral part of this document.

Endorsement notice

The text of the International Standard IEC 61347-2-11:2001/A1:2017 was approved by CENELEC as a European Standard without any modification.

Co	Contents	
FOR	REWORD	vii
INT	RODUCTION	ix
1	Scope	1
2	Normative references	1
3	Definitions	1
4	General requirements	
5	General notes on tests 5.1 Number of specimens	
6	Classification	2
7	Marking7.1 Mandatory marking7.2 Information to be provided, if applicable	2
8	Protection against accidental contact with live parts	2
9	Terminals	
10	Provisions for earthing	
11	Moisture resistance and insulation	
12	Electric strength	
13	3 Thermal endurance for windings	
14	Fault conditions	
15	5 Construction	
16	6 Creepage distances and clearances	
17	Screws, current-carrying parts and connections	
18	Resistance to heat, fire and tracking	
19	Resistance to corrosion	
20	Annexes	

FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the 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, the IEC publishes International Standards. 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. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of the IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested National Committees.
- 3) The documents produced have the form of recommendations for international use and are published in the form of standards, technical specifications, technical reports or guides and they are accepted by the National Committees in that sense.
- 4) In order to promote international unification, IEC National Committees undertake to apply IEC International Standards transparently to the maximum extent possible in their national and regional standards. Any divergence between the IEC Standard and the corresponding national or regional standard shall be clearly indicated in the latter.
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- 6) Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. The IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 61347-2-11 has been prepared by subcommittee 34C: Auxiliaries for lamps, of IEC technical committee 34: Lamps and related equipment.

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

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

FDIS	Report on voting
34C/ 528/F DIS	34C/532/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 3.

The contents of the corrigendum of December 2001 have been included in this copy.

IEC 61347, which appears under the general title *Lamp controlgear*, comprises the following parts:

- Part 1: General and safety requirements
- Part 2-1: Particular requirements for starting devices (other than glow starters)
- Part 2-2: Particular requirements for d.c. or a.c. supplied electronic step-down convertors for filament lamps
- Part 2-3: Particular requirements for a.c. supplied electronic ballasts for fluorescent lamps

BS EN 61347-2-11:2001+A1:2019 IEC 61347-2-11:2001+A1:2017

- Part 2-4: Particular requirements for d.c. supplied electronic ballasts for general lighting
- Part 2-5: Particular requirements for d.c. supplied electronic ballasts for public transport lighting
- Part 2-6: Particular requirements for d.c. supplied electronic ballasts for aircraft lighting
- Part 2-7: Particular requirements for d.c. supplied electronic ballasts for emergency lighting
- Part 2-8: Particular requirements for ballasts for fluorescent lamps
- Part 2-9: Particular requirem ents for ballasts for discharge lam ps (excluding fluorescent lam ps)
- Part 2-10: Particular requirements for electronic invertors and convertors for high-frequency operation of cold start tubular discharge lamps (neon tubes)
- Part 2-11: Particular requirem ents f or m iscellaneous electronic circuits used with lum inaires

The committee has decided that the contents of this publication will remain unchanged until 2003. At this date, the publication will be

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

INTRODUCTION

This first edition of IEC 61347-2-11 is published in conjunction with IEC 61347-1.

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.

Where the statement "The requirements of clause XX of IEC 61347-1 apply" is used in this document, it is interpreted as meaning that the mentioned requirements are also suitable for testing miscellaneous electronic circuits used in or with luminaires, for example devices controlling the light output of the luminaires. (1)

Lamp controlgear —

Part 2-11:

Particular requirements for miscellaneous electronic circuits used with luminaires

1 Scope

This part of IEC 61347 specifies general and safety requirements for miscellaneous electronic circuits used with luminaires for use on a.c. supplies up to 40×1000 V at 50 Hz or 60 Hz and/or d.c. supplies up to 250 1 000 V. This part 40×1000 of IEC 61347 does not apply to circuits or devices for which specific IEC standards are published.

NOTE Examples of miscellaneous electronic circuits used with luminaires are

- electronic ballast control circuits;
- switching circuits used in association with daylight and/or presence sensors;
- circuits to assist EMC performance;
- intermittence and similar devices used with lighting chains;
- earth leakage or open-circuit protective devices used with neon transformers.

2 Normative references

For the purpose of this part of IEC 61347, the normative references given in clause 2 of IEC 61347-1 which are mentioned in this standard apply.

IEC 61347-1: 2000, Lamp controlgear — Part 1: General and safety requirements

3 Definitions

For the purpose of this part of IEC 61347, the definitions of clause 3 of IEC 61347-1 apply together with the following.

3.1

miscellaneous electronic circuits used with luminaires

electronic circuits for use with a luminaire. The circuit may assist the functioning of the lamp controlgear and/or provide additional functions for the luminaire such as switching or circuit monitoring

Note 1 to entry: Electronic circuits covered by their own IEC standards are not included in this definition.

4 General requirements

The requirements of clause 4 of IEC 61347-1 apply.

5 General notes on tests

Clause 5 of IEC 61347-1 is applicable with the following addition: