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## REDLINE VERSION

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### **Belysningsmateriel – Drivdon för ljuskällor – Säkerhet –**

### **Del 2-3: Särskilda fordringar på elektroniska förkopplingsdon för lysrör**

*Controlgear for electric light sources –*

*Safety –*

*Part 2-3: Particular requirements –*

*AC or DC supplied electronic controlgear for fluorescent lamps*

En så kallad ”Redline version” (RLV) innehåller både standarden som fastställts som SEK-publication och en ändringsmarkerad IEC-standard. Alla tillägg och borttagningar sedan den tidigare utgåvan av IEC-standardens är markerade med färg. Med en RLV sparar du mycket tid när du ska identifiera och bedöma aktuella ändringar i standarden. SEK Svensk Elstandard kan bara ge ut RLV i de fall den finns tillgänglig från IEC.



IEC 61347-2-3

Edition 3.0 2024-05  
REDLINE VERSION

# INTERNATIONAL STANDARD



~~Lamp control gear –~~

Controlgear for electric light sources – Safety –

Part 2-3: Particular requirements – AC or DC supplied electronic controlgear for  
fluorescent lamps

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

ICS 29.140.99

ISBN 978-2-8322-8911-2

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

~~LAMP CONTROL GEAR –~~  
**CONTROLGEAR FOR ELECTRIC LIGHT SOURCES – SAFETY –**

**Part 2-3: Particular requirements – AC or DC  
supplied electronic controlgear for 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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**This redline version of the official IEC Standard allows the user to identify the changes made to the previous edition IEC 61347-2-3:2011+AMD1:2016 CSV. A vertical bar appears in the margin wherever a change has been made. Additions are in green text, deletions are in strikethrough red text.**

IEC 61347-2-3 has been prepared by subcommittee 34C: Auxiliaries for lamps, of IEC technical committee 34: Lighting. It is an International Standard.

This third edition cancels and replaces the second edition published in 2011 and Amendment 1:2016. This edition constitutes a technical revision.

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

- a) introduction of dated references where appropriate;
- b) clarification of sample item numbers;
- c) alignment of clause numbers with those of IEC 61347-1.

The text of this International Standard is based on the following documents:

Draft	Report on voting
34C/1586/CDV	34C/1594/RVC

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

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at [www.iec.ch/members\\_experts/refdocs](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/publications](http://www.iec.ch/publications).

This document is intended to be used in conjunction with IEC 61347-1:2015 and IEC 61347-1:2015/AMD1:2017. Where the requirements of any of the clauses of IEC 61347-1:2015 and IEC 61347-1:2015/AMD1:2017 are referred to in this document by the phrase "IEC 61347-1:2015, Clause n and IEC 61347-1:2015/AMD1:2017, Clause n apply", this phrase is interpreted as meaning that all the requirements of the clause in question of IEC 61347-1:2015 and IEC 61347-1:2015/AMD1:2017 apply, except any which are clearly inapplicable to the specific type of controlgear covered by this document.

NOTE In this document, the following print type is used:

- *compliance statements: in italic type.*

A list of all parts in the IEC 61347 series, published under the general title *Controlgear for electric light sources – Safety*, can be found on the IEC website.

Future documents in this series will carry the new general title as cited above. Titles of existing documents in this series will be updated at the time of the next edition.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under [webstore.iec.ch](http://webstore.iec.ch) in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn, or
- revised.

**IMPORTANT – The "colour inside" logo on the cover page of this document indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this document using a colour printer.**

## INTRODUCTION

~~This second edition of IEC 61347-2-3, published in conjunction with IEC 61347-1, represents an review of the first edition of IEC 61347-2-3. 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 intended to be self-contained and, therefore, do not include references to each other. However, for the case of emergency lighting lamp control gear, some cross-referencing has been necessary.~~

~~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 control gear covered by this particular part of IEC 61347-2.~~

The technical requirements in this document compared to IEC 61347-2-3:2011 and IEC 61347-2-3:2011/AMD1:2016 are essentially unchanged. Nevertheless, a new edition of this document could not be avoided, as without the introduction of dated references to IEC 61347-1:2015 and IEC 61347-1:2015/AMD1:2017, the fourth edition of IEC 61347-1:—<sup>1</sup> would have been implicitly applicable due to the undated nature of the references to IEC 61347-1 in IEC 61347-2-3:2011 and IEC 61347-2-3:2011/AMD1:2016.

This document, in referring to any of the clauses of IEC 61347-1:2015 and IEC 61347-1:2015/AMD1:2017, specifies the extent to which such a clause is applicable. Additional requirements are also included, as necessary.

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<sup>1</sup> Fourth edition under preparation. Stage at the time of publication IEC FDIS 61347-1:2024.



# ~~LAMP CONTROL GEAR –~~ CONTROLGEAR FOR ELECTRIC LIGHT SOURCES – SAFETY –

## Part 2-3: Particular requirements – AC or DC supplied electronic controlgear for fluorescent lamps

### 1 Scope

This part of IEC 61347 specifies safety requirements for electronic controlgear for use on AC supplies at 50 Hz or 60 Hz up to 1 000 V ~~and/or~~ on DC supplies up to 1 000 V with lamp operating frequencies deviating from the supply frequency, associated with fluorescent lamps as specified in IEC 60081 and IEC 60901, ~~low-pressure UV lamps~~, and other fluorescent lamps for high-frequency operation.

NOTE 1 Requirements for centrally supplied controlgear for emergency lighting are given in Annex B. This also includes performance requirements as far as they are considered to be safety-related with respect to reliable emergency operation.

NOTE 2 Requirements for emergency lighting controlgear operating from non-centralised power supplies are given in IEC 61347-2-7.

NOTE 3 Performance requirements are the subject of IEC 60929.

~~Performance requirements are the subject of IEC 60929.~~

~~Particular requirements for electronic control gear with means protection against overheating are given in Annex C.~~

~~For emergency lighting operation, particular requirements for control gear operated from a central supply are given in Annex J. Performance requirements appropriate to the safe operation of emergency lighting are also contained in Annex J.~~

~~Requirements for emergency lighting control gear operating from non-centralised power supplies are given in IEC 61347-2-7.~~

~~NOTE Performance requirements detailed by Annex J are those considered to be safety-related with respect to reliable emergency operation.~~

### 2 Normative references

~~For the purposes of this document, the normative references given in Clause 2 of IEC 61347-1 which are mentioned in this standard apply, together with the following normative references.~~

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 60081:1997, *Double-capped fluorescent lamps – Performance specifications*  
IEC 60081:1997/AMD1:2000  
IEC 60081:1997/AMD2:2003  
IEC 60081:1997/AMD3:2005  
IEC 60081:1997/AMD4:2010  
IEC 60081:1997/AMD5:2013  
IEC 60081:1997/AMD6:2017

IEC 60901:1997, *Single-capped fluorescent lamps – Performance specifications*

IEC 60901:1997/AMD1:1997

IEC 60901:1997/AMD2:2000

IEC 60901:1997/AMD3:2004

IEC 60901:1997/AMD4:2007

IEC 60901:1997/AMD5:2011

IEC 60901:1997/AMD6:2014

IEC 60929:2011, *AC and/or DC-supplied electronic control gear for tubular fluorescent lamps – Performance requirements*

IEC 60929:2011/AMD1:2015

IEC 61347-1:~~2007~~2015, *Lamp controlgear – Part 1: General and safety requirements*

IEC 61347-1:2015/AMD1:~~2010~~2017

IEC 61347-2-7:2011, *Lamp controlgear – Part 2-7: Particular requirements for ~~battery~~ electric source for safety services (ESSS) supplied electronic controlgear for emergency lighting (self-contained)<sup>4</sup>*

IEC 61347-2-7:2011 /AMD1:2017

IEC 61347-2-7:2011 /AMD2:2021

IEC 61547, *Equipment for general lighting purposes – EMC immunity requirements*

<sup>4</sup>—To be published

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## Belysningsmateriel – Drivdon för ljuskällor – Säkerhet –

### Del 2-3: Särskilda fordringar på elektroniska förkopplingsdon för lysrör

*Controlgear for electric light sources –*

*Safety –*

*Part 2-3: Particular requirements –*

*AC or DC supplied electronic controlgear for fluorescent lamps*

Som svensk standard gäller europastandarden EN IEC 61347-2-3:2024. Den svenska standarden innehåller den officiella engelska språkversionen av EN IEC 61347-2-3:2024.

#### Nationellt förord

Europastandarden EN IEC 61347-2-3:2024

består av:

- **europastandardens ikraftsättningsdokument**, utarbetat inom CENELEC
- **IEC 61347-2-3, Third edition, 2024 - Controlgear for electric light sources – Safety – Part 2-3: Particular requirements – AC or DC supplied electronic controlgear for fluorescent lamps**

utarbetad inom International Electrotechnical Commission, IEC.

Standarden ska användas tillsammans med SS-EN 61347-1, utg 3:2015 och dess separat utgivna tillägg.

Tidigare fastställd svensk standard SS-EN 61347-2-3, utg 2:2011 med eventuella tillägg, ändringar och rättelser gäller ej fr o m 2027-12-31.

## Standarder underlättar utvecklingen och höjer elsäkerheten

Det finns många fördelar med att ha gemensamma tekniska regler för bl a mätning, säkerhet och provning och för utförande, skötsel och dokumentation av elprodukter och elanläggningar.

Genom att utforma sådana standarder blir säkerhetsfordringar tydliga och utvecklingskostnaderna rimliga samtidigt som marknadens acceptans för produkten eller tjänsten ökar.

Många standarder inom elområdet beskriver tekniska lösningar och metoder som åstadkommer den elsäkerhet som föreskrivs av svenska myndigheter och av EU.

## SEK är Sveriges röst i standardiseringsarbetet inom elområdet

SEK Svensk Elstandard svarar för standardiseringen inom elområdet i Sverige och samordnar svensk medverkan i internationell och europeisk standardisering. SEK är en ideell organisation med frivilligt deltagande från svenska myndigheter, företag och organisationer som vill medverka till och påverka utformningen av tekniska regler inom elektrotekniken.

SEK samordnar svenska intressenters medverkan i SEKs tekniska kommittéer och stödjer svenska experters medverkan i internationella och europeiska projekt.

## Stora delar av arbetet sker internationellt

Utformningen av standarder sker i allt väsentligt i internationellt och europeiskt samarbete. SEK är svensk nationalkommitté av International Electrotechnical Commission (IEC) och Comité Européen de Normalisation Electrotechnique (CENELEC).

Standardiseringsarbetet inom SEK är organiserat i referensgrupper bestående av ett antal tekniska kommittéer som speglar hur arbetet inom IEC och CENELEC är organiserat.

Arbetet i de tekniska kommittéerna är öppet för alla svenska organisationer, företag, institutioner, myndigheter och statliga verk. Den årliga avgiften för deltagandet och intäkter från försäljning finansierar SEKs standardiseringsverksamhet och medlemsavgift till IEC och CENELEC.

## Var med och påverka!

Den som deltar i SEKs tekniska kommittéarbete har möjlighet att påverka framtida standarder och får tidig tillgång till information och dokumentation om utvecklingen inom sitt teknikområde. Arbetet och kontakterna med kollegor, kunder och konkurrenter kan gynnsamt påverka enskilda företags affärsutveckling och bidrar till deltagarnas egen kompetensutveckling.

Du som vill dra nytta av dessa möjligheter är välkommen att kontakta SEKs kansli för mer information.

## SEK Svensk Elstandard

Box 1042  
172 21 Sundbyberg  
Tel 08-444 14 00  
elstandard.se

English Version

Controlgear for electric light sources - Safety - Part 2-3:  
Particular requirements - AC or DC supplied electronic  
controlgear for fluorescent lamps  
(IEC 61347-2-3:2024)

Appareillages de commande pour les sources de lumière  
électriques - Sécurité - Partie 2-3: Exigences particulières -  
Appareillages électroniques alimentés en courant alternatif  
ou en courant continu pour lampes fluorescentes  
(IEC 61347-2-3:2024)

Betriebsgeräte für elektrische Lichtquellen - Sicherheit -  
Teil 2-3: Besondere Anforderungen - wechsel- oder  
gleichstromversorgte elektronische Betriebsgeräte für  
Leuchtstofflampen  
(IEC 61347-2-3:2024)

This European Standard was approved by CENELEC on 2024-10-16. 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, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.



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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

## **European foreword**

The text of document 34C/1586/CDV, future edition 3 of IEC 61347-2-3, prepared by SC 34C "Auxiliaries for lamps" of IEC/TC 34 "Lighting" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 61347-2-3:2024.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2025-12-31 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2027-12-31 document have to be withdrawn

This document supersedes EN 61347-2-3:2011 and all of its amendments and corrigenda (if any).

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.

Any feedback and questions on this document should be directed to the users' national committee. A complete listing of these bodies can be found on the CENELEC website.

## **Endorsement notice**

The text of the International Standard IEC 61347-2-3:2024 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 standard indicated:

IEC 60598-2-22	NOTE Approved as EN IEC 60598-2-22
IEC 61195:1999	NOTE Approved as EN 61195:1999 (not modified)
IEC 61195:1999/A1:2012	NOTE Approved as EN 61195:1999/A1:2013 (not modified)
IEC 61195:1999/A2:2014	NOTE Approved as EN 61195:1999/A2:2015 (not modified)
IEC 61199:2011	NOTE Approved as EN 61199:2011 (not modified)
IEC 61199:2011/A1:2012	NOTE Approved as EN 61199:2011/A1:2013 (not modified)
IEC 61199:2011/A2:2014	NOTE Approved as EN 61199:2011/A2:2015 (not modified)
IEC 61347-2-3:2011	NOTE Approved as EN 61347-2-3:2011 (not modified)
IEC 61347-2-3:2011/A1:2016	NOTE Approved as EN 61347-2-3:2011/A1:2017 (not modified)

## Annex ZA (normative)

### Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: [www.cenelec.eu](http://www.cenelec.eu).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60081	1997	Double-capped fluorescent lamps - Performance specifications	EN 60081	1998
+ A1 (mod)	2000		+ A1	2002
+ A2	2003		+ A2	2003
+ A3	2005		+ A3	2005
+ A4	2010		+ A4	2010
+ A5	2013		+ A5	2013
+ A6 (mod)	2017		+ A6	2017
-	-		+ A11	2018
IEC 60901	1996	Single-capped fluorescent lamps - Performance specifications	EN 60901	1996
+ A1	1997		+ A1	1997
-	-		+ A1:1997/corrigendum Oct.	1997
+ A2	2000		+ A2	2000
+ A3	2004		+ A3	2004
+ A4	2007		+ A4	2008
+ A5	2011		+ A5	2012
+ A6 (mod)	2014		+ A6	2017
IEC 60929	2011	AC and/or DC-supplied electronic control gear for tubular fluorescent lamps - Performance requirements	EN 60929	2011
-	-		+ AC	2011
+ A1	2015		+ A1	2016
IEC 61347-1	2015	Lamp controlgear - Part 1: General and safety requirements	EN 61347-1	2015
+ A1	2017		+ A1	2021

## EN IEC 61347-2-3:2024 (E)

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61347-2-7	2011	Lamp controlgear - Part 2-7: Particular requirements for battery supplied electronic controlgear for emergency lighting (self-contained)	EN 61347-2-7	2012
+ A1	2017		+ A1	2019
+ A2	2021		-	-
IEC 61547	-	Equipment for general lighting purposes - EMC immunity requirements	EN IEC 61547	-





IEC 61347-2-3

Edition 3.0 2024-05

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

**Controlgear for electric light sources – Safety –  
Part 2-3: Particular requirements – AC or DC supplied electronic controlgear for  
fluorescent lamps**

**Appareillages de commande pour les sources de lumière électriques – Sécurité –  
Partie 2-3: Exigences particulières – Appareillages électroniques alimentés en  
courant alternatif ou en courant continu pour lampes fluorescentes**

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**CONTROLGEAR FOR ELECTRIC LIGHT SOURCES – SAFETY –****Part 2-3: Particular requirements – AC or DC  
supplied electronic controlgear for fluorescent lamps**

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IEC 61347-2-3 has been prepared by subcommittee 34C: Auxiliaries for lamps, of IEC technical committee 34: Lighting. It is an International Standard.

This third edition cancels and replaces the second edition published in 2011 and Amendment 1:2016. This edition constitutes a technical revision.

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

- a) introduction of dated references where appropriate;
- b) clarification of sample item numbers;
- c) alignment of clause numbers with those of IEC 61347-1.

The text of this International Standard is based on the following documents:

Draft	Report on voting
34C/1586/CDV	34C/1594/RVC

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

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at [www.iec.ch/members\\_experts/refdocs](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/publications](http://www.iec.ch/publications).

This document is intended to be used in conjunction with IEC 61347-1:2015 and IEC 61347-1:2015/AMD1:2017. Where the requirements of any of the clauses of IEC 61347-1:2015 and IEC 61347-1:2015/AMD1:2017 are referred to in this document by the phrase "IEC 61347-1:2015, Clause n and IEC 61347-1:2015/AMD1:2017, Clause n apply", this phrase is interpreted as meaning that all the requirements of the clause in question of IEC 61347-1:2015 and IEC 61347-1:2015/AMD1:2017 apply, except any which are clearly inapplicable to the specific type of controlgear covered by this document.

NOTE In this document, the following print type is used:

– *compliance statements: in italic type.*

A list of all parts in the IEC 61347 series, published under the general title *Controlgear for electric light sources – Safety*, can be found on the IEC website.

Future documents in this series will carry the new general title as cited above. Titles of existing documents in this series will be updated at the time of the next edition.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under [webstore.iec.ch](http://webstore.iec.ch) in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn, or
- revised.

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## INTRODUCTION

The technical requirements in this document compared to IEC 61347-2-3:2011 and IEC 61347-2-3:2011/AMD1:2016 are essentially unchanged. Nevertheless, a new edition of this document could not be avoided, as without the introduction of dated references to IEC 61347-1:2015 and IEC 61347-1:2015/AMD1:2017, the fourth edition of IEC 61347-1:<sup>1</sup> would have been implicitly applicable due to the undated nature of the references to IEC 61347-1 in IEC 61347-2-3:2011 and IEC 61347-2-3:2011/AMD1:2016.

This document, in referring to any of the clauses of IEC 61347-1:2015 and IEC 61347-1:2015/AMD1:2017, specifies the extent to which such a clause is applicable. Additional requirements are also included, as necessary.

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<sup>1</sup> Fourth edition under preparation. Stage at the time of publication IEC FDIS 61347-1:2024.

## CONTROLGEAR FOR ELECTRIC LIGHT SOURCES – SAFETY –

### Part 2-3: Particular requirements – AC or DC supplied electronic controlgear for fluorescent lamps

#### 1 Scope

This part of IEC 61347 specifies safety requirements for electronic controlgear for use on AC supplies at 50 Hz or 60 Hz up to 1 000 V or on DC supplies up to 1 000 V with lamp operating frequencies deviating from the supply frequency, associated with fluorescent lamps as specified in IEC 60081 and IEC 60901, low-pressure UV lamps, and other fluorescent lamps for high-frequency operation.

NOTE 1 Requirements for centrally supplied controlgear for emergency lighting are given in Annex B. This also includes performance requirements as far as they are considered to be safety-related with respect to reliable emergency operation.

NOTE 2 Requirements for emergency lighting controlgear operating from non-centralised power supplies are given in IEC 61347-2-7.

NOTE 3 Performance requirements are the subject of IEC 60929.

#### 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 60081:1997, *Double-capped fluorescent lamps – Performance specifications*

IEC 60081:1997/AMD1:2000

IEC 60081:1997/AMD2:2003

IEC 60081:1997/AMD3:2005

IEC 60081:1997/AMD4:2010

IEC 60081:1997/AMD5:2013

IEC 60081:1997/AMD6:2017

IEC 60901:1997, *Single-capped fluorescent lamps – Performance specifications*

IEC 60901:1997/AMD1:1997

IEC 60901:1997/AMD2:2000

IEC 60901:1997/AMD3:2004

IEC 60901:1997/AMD4:2007

IEC 60901:1997/AMD5:2011

IEC 60901:1997/AMD6:2014

IEC 60929:2011, *AC and/or DC-supplied electronic control gear for tubular fluorescent lamps – Performance requirements*

IEC 60929:2011/AMD1:2015

IEC 61347-1:2015, *Lamp controlgear – Part 1: General and safety requirements*

IEC 61347-1:2015/AMD1:2017

IEC 61347-2-7:2011, *Lamp controlgear – Part 2-7: Particular requirements for electric source for safety services (ESSS) supplied electronic controlgear for emergency lighting (self-contained)*

IEC 61347-2-7:2011 /AMD1:2017

IEC 61347-2-7:2011 /AMD2:2021

IEC 61547, *Equipment for general lighting purposes – EMC immunity requirements*