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Standards

Irish Standard  
I.S. EN 62718:2016

# Railway applications - Rolling stock - DC supplied electronic ballasts for lighting fluorescent lamps

**I.S. EN 62718:2016**

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

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## National Foreword

I.S. EN 62718:2016 is the adopted Irish version of the European Document EN 62718:2016, Railway applications - Rolling stock - DC supplied electronic ballasts for lighting fluorescent lamps

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EUROPEAN STANDARD

**EN 62718**

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 2016

ICS 45.060

Supersedes EN 50311:2003

English Version

**Railway applications - Rolling stock - DC supplied electronic ballasts for lighting fluorescent lamps  
(IEC 62718:2013 + COR1:2016)**

Applications ferroviaires - Matériel roulant - Ballasts électroniques à courant continu pour lampes fluorescentes d'éclairage  
(IEC 62718:2013 + COR1:2016)

Bahnanwendungen - Bahnfahrzeuge - Gleichstromversorgte elektronische Vorschaltgeräte für Leuchtstofflampen  
(IEC 62718:2013 + COR1:2016)

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Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

**EN 62718:2016****European foreword**

This document (EN 62718:2016) consists of the text of IEC 62718:2013 + COR1:2016 prepared by IEC/TC 9 "Electrical equipment and systems for railways".

The following dates are fixed:

- latest date by which the document has to be implemented (dop) 2016-10-08  
at national level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2019-04-08

This document supersedes EN 50311:2003.

EN 62718:2016 includes the following significant technical changes with respect to EN 50311:2003:

- Sections 8.2.1.3 and 9.3.2.7: the value is extended from "50 Hz" to "50 Hz or 60 Hz";
- Sections 8.2.3.1 and 9.3.4.1: the specified Level (0,7 mA) of leakage current in EN 50311:2003 is omitted, instead of it a reference to the standard (IEC 60598-1:2008, Section 10.3) is noted;
- Section 9.3.2.8: Table 3 - Dielectric test voltage values are referenced to IEC 62497-1, this cause an extension of the nominal voltage levels;
- Section 9.3.4.1: the values of R and C in Figure 3 (EN 50311:2003  $R = 2\ 000\ \Omega \pm 100\ \Omega$   $C = 112\ nF \pm 6\ nF$ ) are omitted;
- new Annex A (informative): Distance between lamp an metallic support (before it was normative in Section 8.2.4.4 of EN 50311:2003);
- Annex H from EN 50311:2003 is omitted.

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The text of the International Standard IEC 62718:2013 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 60068-1:1988	NOTE	Harmonized as EN 60068-1:1994 <sup>1)</sup> (not modified).
IEC 60081	NOTE	Harmonized as EN 60081.
IEC 60901:1996	NOTE	Harmonized as EN 60901:1996 (not modified).
IEC 60927	NOTE	Harmonized as EN 60927.
IEC 61347-2-7:2011	NOTE	Harmonized as EN 61347-2-7:2012 (not modified).
CISPR 15:2005	NOTE	Harmonized as EN 55015:2006 <sup>2)</sup> (not modified).
CISPR 15:2005/A1:2006	NOTE	Harmonized as EN 55015:2006/A1:2007 <sup>2)</sup> (not modified).

<sup>1)</sup> Superseded by EN 60068-1:2014 (IEC 60068-1:2013): DOW = 2016-11-11.

<sup>2)</sup> Superseded by EN 55015:2013 (CISPR 15:2013 + IS1:2013 + IS2:2013): DOW= 2016-06-12.

## 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 1 When 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 60068-2-1	2007	Environmental testing - Part 2-1: Tests - Test A: Cold	EN 60068-2-1	2007
IEC 60068-2-2	2007	Environmental testing - Part 2-2: Tests - Test B: Dry heat	EN 60068-2-2	2007
IEC 60068-2-30	2005	Environmental testing - Part 2-30: Tests - Test Db: Damp heat, cyclic (12 h + 12 h cycle)	EN 60068-2-30	2005
IEC 60077-1 (mod)	1999	Railway applications - Electric equipment for rolling stock - Part 1: General service conditions and general rules	EN 60077-1	2002
IEC 60417-DB	-	Graphical symbols for use on equipment	-	-
IEC 60529	1989	Degrees of protection provided by enclosures (IP Code)	EN 60529 +corr. May	1991 1993
IEC 60571	2012	Railway applications - Electronic equipment used on rolling stock	EN 50155 + corr. May + AC	2007 2010 2012
IEC 60598-1 (mod)	2008	Luminaires - Part 1: General requirements and tests	EN 60598-1 A11	2008 <sup>3)</sup> 2009 <sup>3)</sup>
IEC 60929	-	AC and/or DC-supplied electronic control gear for tubular fluorescent lamps - Performance requirements	EN 60929	-
IEC 61140	-	Protection against electric shock - Common aspects for installation and equipment	EN 61140	-
IEC 61347-1 (mod)	2007	Lamp controlgear - Part 1: General and safety requirements	EN 61347-1	2008 <sup>4)</sup>
IEC 61347-2-3	-	Lamp controlgear - Part 2-3: Particular requirements for a.c. and/or d.c. supplied electronic control gear for fluorescent lamps	EN 61347-2-3	-

<sup>3)</sup> Superseded by EN 60598-1:2015 (IEC 60598-1:2014): DOW = 2017-10-20.

<sup>4)</sup> Superseded by EN 61347-1:2015 (IEC 61347-1:2015): DOW = 2018-03-26.

**EN 62718:2016**

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61373	-	Railway applications - Rolling stock equipment - Shock and vibration tests	EN 61373	-
IEC 62236-3-2	2008	Railway applications - Electromagnetic compatibility - Part 3-2: Rolling stock - Apparatus	EN 50121-3-2	2006
IEC 62497-1	-	Railway applications - Insulation coordination - Part 1: Basic requirements - Clearances and creepage distances for all electrical and electronic equipment	EN 50124-1	-
IEC 62498-1	-	Railway applications - Environmental conditions for equipment - Part 1: Equipment on board rolling stock	EN 50125-1	-



IEC 62718:2013/COR1:2016

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**IEC 62718**  
Edition 1.0 2013-04

**IEC 62718**  
Édition 1.0 2013-04

**RAILWAY APPLICATIONS – ROLLING STOCK –  
DC SUPPLIED ELECTRONIC BALLASTS FOR  
LIGHTING FLUORESCENT LAMPS**

**APPLICATIONS FERROVIAIRES – MATÉRIEL  
ROULANT – BALLASTS ÉLECTRONIQUES À  
COURANT CONTINU POUR LAMPES  
FLUORESCENTES D'ÉCLAIRAGE**

**CORRIGENDUM 1**

**6.2 Marking**

*In the first sentence, replace references to 6.1.1 and 6.1.2 by 6.1.2 and 6.1.3.*

**8.2.3.5 Magnetic effects**

*In the second line, replace "25 mm or less" by "25 mm or more".*

**6.2 Marquage**

*Dans la première phrase, remplacer les références à 6.1.1 et 6.1.2 par 6.1.2 et 6.1.3.*

**8.2.3.5 Effets magnétiques**

*Cette correction ne concerne que le texte anglais.*

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**IEC 62718**

Edition 1.0 2013-04

# **INTERNATIONAL STANDARD**

# **NORME INTERNATIONALE**

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**Railway applications – Rolling stock – DC supplied electronic ballasts for  
lighting fluorescent lamps**

**Applications ferroviaires – Matériel roulant – Ballasts électroniques à courant  
continu pour lampes fluorescentes d'éclairage**





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**IEC 62718**

Edition 1.0 2013-04

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

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**Railway applications – Rolling stock – DC supplied electronic ballasts for  
lighting fluorescent lamps**

**Applications ferroviaires – Matériel roulant – Ballasts électroniques à courant  
continu pour lampes fluorescentes d'éclairage**

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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**RAILWAY APPLICATIONS – ROLLING STOCK – DC SUPPLIED  
ELECTRONIC BALLASTS FOR LIGHTING FLUORESCENT LAMPS**
**FOREWORD**

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International Standard IEC 62718 has been prepared by IEC technical committee 9: Electrical equipment and systems for railways.

This standard is based on EN 50311:2003.

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

FDIS	Report on voting
9/1769A/FDIS	9/1798/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.

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