

Irish Standard I.S. EN 50155:2017

Railway applications - Rolling stock - Electronic equipment

© CENELEC 2017 No copying without NSAI permission except as permitted by copyright law.

I.S. EN 50155:2017

Incorporating amendments/corrigenda/National Annexes issued since publication:

The National Standards Authority of Ireland (NSAI) produces the following categories of formal documents:

I.S. xxx: Irish Standard — national specification based on the consensus of an expert panel and subject to public consultation.

S.R.~xxx: Standard~Recommendation-recommendation~based~on~the~consensus~of~an~expert~panel~and~subject~to~public~consultation.

SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

This document replaces/revises/consolidates the NSAI adoption of the document(s) indicated on the CEN/CENELEC cover/Foreword and the following National document(s):

NOTE: The date of any NSAI previous adoption may not match the date of its original CEN/CENELEC document.

This document is based on:

Published:

EN 50155:2017

2017-10-13

This document was published under the authority of the NSAI and comes into effect on:

ICS number:

2017-11-01

45.060.01

NOTE: If blank see CEN/CENELEC cover page

NSAI

T +353 1 807 3800 F+353 1 807 3838

Sales:

1 Swift Square, Northwood, Santry E standards@nsai.ie Dublin 9 W NSAl.ie

T+353 1 857 6730 F+353 1 857 6729 W standards.ie

Údarás um Chaighdeáin Náisiúnta na hÉireann

This is a free page sample. Access the full version online.

National Foreword

I.S. EN 50155:2017 is the adopted Irish version of the European Document EN 50155:2017, Railway applications - Rolling stock - Electronic equipment

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

For relationships with other publications refer to the NSAI web store.

Compliance with this document does not of itself confer immunity from legal obligations.

In line with international standards practice the decimal point is shown as a comma (,) throughout this document.

This is a free page sample. Access the full version online.

This page is intentionally left blank

This is a free page sample. Access the full version online. **I.S. EN 50155:2017**

EUROPEAN STANDARD

EN 50155

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2017

ICS 45.060.01

Supersedes EN 50155:2007

English Version

Railway applications - Rolling stock - Electronic equipment

Applications ferroviaires - Équipements électroniques utilisés sur le matériel roulant

Bahnanwendungen - Elektronische Einrichtungen auf Schienenfahrzeugen

This European Standard was approved by CENELEC on 2017-05-08. 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, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.



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

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

EN 50155:2017 (E)

C	Contents Page					
Eu	ropean	foreword	9			
Int	roduction	on	11			
1	Scope)	12			
2	Norma	ative references	12			
3	Terms	s, definitions and abbreviations	14			
;	3.1 Te	erms and definitions	14			
;	3.2 A	bbreviations	19			
4	Gener	ral requirements	20			
4	4.1 P	erformance requirements	20			
4	4.2 P	erformance criteria	20			
	4.2.1	General	20			
	4.2.2	Performance criterion A	20			
	4.2.3	Performance criterion B	20			
	4.2.4	Performance criterion C	21			
4	4.3 E	nvironmental service conditions	21			
	4.3.1	Altitude	21			
	4.3.2	Operating temperature	21			
	4.3.3	Switch-on extended operating temperature	22			
	4.3.4	Rapid temperature variations	23			
	4.3.5	Shock and vibration	23			
	4.3.6	Electromagnetic compatibility	23			
	4.3.7	Relative humidity	23			
4	4.4 S	pecial service conditions	24			
	4.4.1	General	24			
	4.4.2	Atmospheric pollutants	24			
5	Electr	ical service conditions	24			
ţ	5.1 P	ower supply	24			
	5.1.1	DC Supply	24			
	5.1.2	Supply by a specified source other than the main power source	28			
	5.1.3	Supply change-over	28			
	5.1.4	Supply with overhead line or third rail	28			
ţ	5.2 In	stallation requirements	29			
	5.2.1	Power supply	29			
	5.2.2	Thermal compatibility	29			
	5.2.3	Electromagnetic compatibility	29			
	5.2.4	Cabling	29			
	5.2.5	Installation instruction	29			



	This is a free preview.	Purchase the e	entire publication	at the link below:
--	-------------------------	----------------	--------------------	--------------------

Product Page

- Dooking for additional Standards? Visit Intertek Inform Infostore
- Dearn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation