BS EN 61010-2-091:2012

Incorporating corrigendum May 2013

BSI Standards Publication

Safety requirements for electrical equipment for measurement, control and laboratory use

Part 2-091: Particular requirements for cabinet x-ray systems

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National foreword

This British Standard is the UK implementation of EN 61010-2-091:2012, incorporating corrigendum May 2013. It is identical to IEC 61010-2-091:2012.

The UK participation in its preparation was entrusted to Technical Committee EPL/66, Safety of measuring, control and laboratory equipment.

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 31 August 2012.

Amendments/corrigenda issued since publication

Date	Text affected
31 May 2013	Implementation of CENELEC corrigendum January 2013: Annex ZB inserted

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 61010-2-091

August 2012

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English version

Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-091: Particular requirements for cabinet x-ray systems

(IEC 61010-2-091:2012)

Règles de sécurité pour appareils électriques de mesurage, de régulation et de laboratoire -
Partie 2-091: Exigences particulières pour les équipements à rayons x montés en armoire
(CEI 61010-2-091:2012)

Sicherheitsbestimmungen für elektrische Mess-, Steuer-, Regel- und Laborgeräte -
Teil 2-091: Besondere Anforderungen für Röntgengeräteschränke
(IEC 61010-2-091:2012)

This European Standard was approved by CENELEC on 2012-07-30. 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, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

CENELEC

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

Management Centre: Avenue Marnix 17, B - 1000 Brussels

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Foreword

The text of document 66/462/FDIS, future edition 1 of IEC 61010-2-091, prepared by IEC/TC 66 "Safety of measuring, control and laboratory equipment" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 61010-2-091:2012.

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)	2013-04-30
• latest date by which the national standards conflicting with the document have to be withdrawn	(dow)	2015-07-30

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).

This Part 2-091 is intended to be used in conjunction with EN 61010-1:2010. Consideration may be given to future editions of, or amendments to, EN 61010-1.
This Part 2-091 supplements or modifies the corresponding clauses in EN 61010-1 so as to convert that publication into the EN standard: *Particular requirements for CABINET X-RAY SYSTEMS*.
Where a particular subclause of Part 1 is not mentioned in this part 2, that subclause applies as far as is reasonable. Where this part states “addition”, “modification”, “replacement”, or “deletion”, the relevant requirement, test specification or note in Part 1 should be adapted accordingly.
In this standard:
a) the following print types are used:
– requirements: in roman type;
– NOTES: in small roman type;
– *conformity and tests: in italic type*;
– terms used throughout this standard which have been defined in Clause 3: SMALL ROMAN CAPITALS.
b) subclauses, figures, and tables which are additional to those in Part 1 are numbered starting from 101; additional annexes are lettered starting from AA and additional list items are lettered from aa).

Endorsement notice

The text of the International Standard IEC 61010-2-091:2012 was approved by CENELEC as a European Standard without any modification.

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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.

Addition *to Annex ZA of EN 61010-1:*

Publication	Year	Title	EN/HD	Year
IEC 62061	-	Safety of machinery - Functional safety of safety-related electrical, electronic and programmable electronic control systems	EN 62061	-
ISO 13849-1	-	Safety of machinery - Safety-related parts of control systems - Part 1: General principles for design	EN ISO 13849-1	-

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Annex ZB
(informative)

A-deviations

A-deviation: National deviation due to regulations, the alteration of which is for the time being outside the competence of the CEN/CENELEC national member.

This European Standard falls under Directive LVD (2006/95/EC).

NOTE (from CEN/CENELEC IR Part 2:2006, 2.17) Where standards fall under EC Directives, it is the view of the Commission of the European Communities (OJ No C 59; 1982-03-09) that the effect of the decision of the Court of Justice in case 815/79 Cremonini/Vrankovich (European Court Reports 1980, p. 3583) is that compliance with A-deviations is no longer mandatory and that the free movement of products complying with such a standard should not be restricted except under the safeguard procedure provided for in the relevant Directive.

A-deviations in an EFTA-country are valid instead of the relevant provisions of the European Standard in that country until they have been removed.

Country	Divergence
France	**National legislation** Section 1 of the Decree of 2 September 1991, determining technical requirements to be met by X-ray generators, used in industrial radiology, states: *"The devises of X-ray generators used in industrial radiology, including accessories, put into service after the publication of this Decree shall comply with the rules set out the date of commissioning by the approved French standard NF C 74-100 concerning* Radiology equipment. X-ray apparatus - Construction and tests. *or any equivalent standard of a Member State of the European Economic Community "*

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