



BSI Standards Publication

Radiation protection instrumentation — Backpack-type radiation detector (BRD) for the detection of illicit trafficking of radioactive material

This is a preview of BS EN IEC 62694:2024. [Click here to purchase the full version from the ANSI store.](#)

National foreword

This British Standard is the UK implementation of EN IEC 62694:2024. It is identical to IEC 62694:2022. It supersedes BS EN 62694:2016, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee NCE/2, Radiation protection and measurement.

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

During the development of this standard, the UK committee expressed concerns about the ability of manufacturers and/or their associated test houses to demonstrate performance compliance against all its clauses, as the UK committee’s view is that those organizations might face difficulty in readily accessing the full suite of specified radionuclides. However, the UK committee recognizes that the inclusion of such radionuclides is essential for ensuring that manufacturers developing equipment to meet this standard fully consider the intended application of their products.

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Amendments/corrigenda issued since publication

Date	Text affected
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EUROPÄISCHE NORM

February 2024

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Supersedes EN 62694:2016

English Version

Radiation protection instrumentation - Backpack-type radiation
detector (BRD) for the detection of illicit trafficking of radioactive
material
(IEC 62694:2022)

Instrumentation pour la radioprotection - Détecteur de
rayonnement de type sac à dos (BRD) pour la détection du
trafic illicite des matières radioactives
(IEC 62694:2022)

Strahlenschutz-Messgeräte - Rucksack-Strahlungsdetektor
für den Nachweis von unerlaubt transportiertem
radioaktivem Material
(IEC 62694:2022)

This European Standard was approved by CENELEC on 2024-01-22. 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.

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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

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European foreword

This document (EN IEC 62694:2024) consists of the text of IEC 62694:2022 prepared by IEC/SC 45B "Radiation protection instrumentation" of IEC/TC 45 "Nuclear instrumentation".

The following dates are fixed:

- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2025-01-22
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2027-01-22

This document supersedes EN 62694:2016 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 62694:2022 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 60846-1	NOTE	Approved as EN 60846-1
IEC 61526	NOTE	Approved as EN 61526
IEC 62244	NOTE	Approved as EN IEC 62244
IEC 62327	NOTE	Approved as EN IEC 62327
IEC 62401	NOTE	Approved as EN IEC 62401
IEC 62484	NOTE	Approved as EN IEC 62484
IEC 62533	NOTE	Approved as EN 62533
IEC 62534	NOTE	Approved as EN 62534
IEC 62618	NOTE	Approved as EN 62618
IEC 63121	NOTE	Approved as EN IEC 63121

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(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.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60050-395	2014	International Electrotechnical Vocabulary - Part 395: Nuclear instrumentation: Physical phenomena, basic concepts, instruments, systems, equipment and detectors	-	-
+ A1	2016		-	-
+ A2	2020		-	-
IEC 60068-2-11	-	Environmental testing - Part 2-11: Tests - Test Ka: Salt mist	EN IEC 60068-2-11	2021
IEC 60079-11	-	Electrical apparatus for explosive gas atmospheres - Part 11: Intrinsic safety "i"	-	-
IEC 62706	-	Radiation protection instrumentation - Environmental, electromagnetic and mechanical performance requirements	-	-
IEC 62755	-	Radiation protection instrumentation - Data format for radiation instruments used in the detection of illicit trafficking of radioactive materials	-	-
UL 913	-	Standard for Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II, III, Division 1, Hazardous (Classified) Locations	-	-

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CONTENTS

FOREWORD.....	5
INTRODUCTION.....	7
1 Scope.....	8
2 Normative references	8
3 Terms and definitions, abbreviated terms and symbols, quantities and units.....	9
3.1 Terms and definitions.....	9
3.2 Abbreviated terms and symbols	10
3.3 Quantities and units	10
4 General test procedure	11
4.1 General.....	11
4.2 Standard test conditions	11
4.3 Uncertainties.....	11
4.4 Statistical fluctuations	11
4.5 Background radiation during testing	12
4.6 Radiation sources	12
4.7 Special nuclear material (SNM) and depleted uranium (DU) sources.....	12
4.8 BRD set up	12
4.9 Speed of moving sources including scaling of speed and distance	14
4.10 Functionality tests.....	14
4.10.1 General	14
4.10.2 Pre-test measurements.....	15
4.10.3 Intermediate-test measurements.....	15
4.10.4 Post-test measurements	16
4.10.5 Acceptance criteria	16
5 General requirements	17
5.1 Design requirements	17
5.2 Markings	17
5.3 Switches	17
5.4 Effective range of dose rate measurement – photons	17
5.5 Explosive atmospheres	17
5.6 Power supply	17
5.6.1 Requirements	17
5.6.2 Method of test.....	17
5.7 Data format.....	18
5.7.1 Requirements	18
5.7.2 Method of test.....	18
5.8 Data transfer	18
5.9 User interface – Indications	19
5.10 Alarms	19
5.10.1 Alarm indication.....	19
5.10.2 Personal protection alarm	19
5.10.3 Audible indication for searching	19
5.10.4 Audible alarms.....	19
6 Radiation detection requirements	19
6.1 False alarm test	19
6.1.1 Requirements	19