



# SLOVENSKI STANDARD SIST EN IEC 62694:2024

01-maj-2024

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**Instrumenti za zaščito pred sevanjem - Nahrbtni detektor sevanja (BRD) za odkrivanje nezakonitega prometa z radioaktivnimi snovmi (IEC 62694:2022)**

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

Strahlenschutz-Messgeräte - Rucksack-Strahlungsdetektor für den Nachweis von unerlaubt transportiertem radioaktivem 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)

**Ta slovenski standard je istoveten z: EN IEC 62694:2024**

[SIST EN IEC 62694:2024](#)

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EUROPEAN STANDARD

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

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(IEC 62694:2022)

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**EN IEC 62694:2024 (E)****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- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2027-01-22

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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

## 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.cencenelec.eu](http://www.cencenelec.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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# INTERNATIONAL STANDARD

# NORME INTERNATIONALE



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

**Instrumentation pour la radioprotection – Détecteur de rayonnement de type  
sac à dos (BRD) pour la détection du trafic illicite des matières radioactives**

Document Preview

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**RADIATION PROTECTION INSTRUMENTATION – BACKPACK-TYPE  
RADIATION DETECTOR (BRD) FOR THE DETECTION OF ILLICIT  
TRAFFICKING OF RADIOACTIVE MATERIAL**

## FOREWORD

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IEC 62694 has been prepared by subcommittee 45B: Radiation protection instrumentation, of IEC technical committee 45: Nuclear instrumentation. It is an International Standard.

This second edition cancels and replaces the first edition, published in 2014. This edition constitutes a technical revision.

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

- a) making the standard consistent with the new standards for detection of illicit trafficking of radioactive material;
- b) creating unformed functionality test for all environmental, electromagnetic and mechanical tests and a requirement for the coefficient of variation of each nominal mean reading;
- c) revised radiological requirements including the simplification of radionuclide identification acceptance criteria;
- d) reference to IEC 62706 for the environmental, electromagnetic and mechanical test conditions.

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

Draft	Report on voting
45B/1012/FDIS	45B/1018/RVD

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).

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