

STN	Výbušniny na civilné použitie Rozbušky a bleskovicové oneskorovače Časť 13: Overenie odolnosti elektrických a elektronických rozbušiek proti elektrostatickému výboju (ESD)	STN EN 13763-13 66 8083
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Explosives for civil uses - Detonators and detonating cord relays - Part 13: Verification of the resistance to electrostatic discharge (ESD) of electric and electronic detonators

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 01/26

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EN 13763-13

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English Version

**Explosives for civil uses - Detonators and detonating cord
relays - Part 13: Verification of the resistance to
electrostatic discharge (ESD) of electric and electronic
detonators**

Explosifs à usage civil - Détonateurs et relais pour
cordeau détonant - Partie 13 : Vérification de la
résistance à la décharge électrostatique (DES) des
détonateurs électriques et électroniques

Explosivstoffe für zivile Zwecke - Zünder und
Sprengschnurverzögerer - Teil 13: Überprüfung der
Widerstandsfähigkeit von elektrischen und
elektronischen Zündern gegen elektrostatische
Entladungen

This European Standard was approved by CEN on 29 September 2025.

CEN 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 CEN 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 CEN 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 STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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EN 13763-13:2025 (E)

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EN 13763-13:2025 (E)**European foreword**

This document (EN 13763-13:2025) has been prepared by Technical Committee CEN/TC 321 “Explosives for civil uses”, the secretariat of which is held by UNE.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by April 2026, and conflicting national standards shall be withdrawn at the latest by April 2026.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 13763-13:2004.

EN 13763-13:2025 includes the following significant technical changes with respect to EN 13763-13:2004:

- a) the document title has been changed from “Detonators and relays — Part 13: Determination of resistance of electric detonators to electrostatic discharge” to “Detonators and detonating cord relays — Part 13: Verification of the resistance to electrostatic discharge (ESD) of electric and electronic detonators”;
- b) the Scope has been revised to include electronic detonators and to clarify the covered and not covered explosives;
- c) the normative references have been updated;
- d) the terminology entries 3.1, 3.2 and 3.3 have been removed;
- e) Clause 4 “Principle” has been added;
- f) the clause “Apparatus” has been revised and enlarged and now also includes the apparatus for testing electronic detonators;
- g) the clause “Test pieces” is now called “Preparation of test sample” and has been revised and now also includes electronic detonators;
- h) the clause “Procedure” has been revised and further detailed and now also includes the procedure for testing electronic detonators;
- i) in Table 1 “ESD impulse values for testing electric detonators”, tolerance values have been introduced;
- j) Clause 8 “Expression of results” has been added;
- k) the clause “Test report” does no longer require conformity with EN ISO/IEC 17025 and the information to be provided has been revised;
- l) Annex A “Range of applicability of the test method” has been removed;
- m) former Annex B is now Annex A “Adjustment of the electrostatic discharge generator for testing electric detonators” and has been revised;
- n) a new Annex B “Function test for electronic detonators” has been added;

o) Annex ZA has been updated;

p) the Bibliography has been added and lists EN ISO/IEC 17025:2017.

This document has been prepared under a standardization request addressed to CEN by the European Commission. The Standing Committee of the EFTA States subsequently approves these requests for its Member States.

For the relationship with EU Legislation, see informative Annex ZA, which is an integral part of this document.

A list of all parts in the EN 13763 series, published under the general title *Explosives for civil uses — Detonators and detonating cord relays*, can be found on the CEN website.

Any feedback and questions on this document should be directed to the users' national standards body. A complete listing of these bodies can be found on the CEN website.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

EN 13763-13:2025 (E)**1 Scope**

This document specifies test methods for the verification of the resistance to electrostatic discharge (ESD) of electric and electronic detonators.

This document does not apply to electronic detonators without leading wires, non-electric, plain or semi-finished detonators.

This document does not apply to surface connectors, detonating cord relays or electronic initiation systems.

2 Normative references

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.

EN 13763-1:2025, *Explosives for civil uses — Detonators and detonating cord relays — Part 1: Requirements*

EN 13763-21:2025, *Explosives for civil uses — Detonators and detonating cord relays — Part 21: Verification of flash-over voltage of electric detonators*

EN 13763-27:2025, *Explosives for civil uses — Detonators and detonating cord relays — Part 27: Test methods for electronic initiation systems*

EN 13857-1:2025, *Explosives for civil uses — Part 1: Vocabulary*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN