



SLOVENSKI STANDARD

SIST EN 13763-13:2025

01-december-2025

Eksplzivni za civilno uporabo - Detonatorji in zakasnilniki - 13. del: Preverjanje odpornosti električnih in elektronskih detonatorjev proti elektrostatičnemu praznjenju (ESD)

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

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

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

<https://standards.iteh.ai/>

<https://standards.iteh.ai/catalog/standards/sist/67841058-ec11-4eea-8f6e-896a006314f1/sist-en-13763-13-2025>

Ta slovenski standard je istoveten z: EN 13763-13:2025

ICS:

71.100.30	Eksplzivni. Pirotehnika in ognjemeti	Explosives. Pyrotechnics and fireworks
-----------	--------------------------------------	--

SIST EN 13763-13:2025

en

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 13763-13

October 2025

ICS 71.100.30

Supersedes EN 13763-13:2004

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.

CEN members are the national standards bodies of 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 United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Contents	Page
European foreword	4
1 Scope	6
2 Normative references	6
3 Terms and definitions	6
4 Principle	6
5 Apparatus	7
6 Preparation of test sample	7
6.1 Electric detonators.....	7
6.2 Electronic detonators.....	8
7 Procedure	9
7.1 Electric detonators.....	9
7.1.1 General.....	9
7.1.2 Pin-to-pin configuration.....	9
7.1.3 Pins-to-case configuration.....	10
7.2 Electronic detonators.....	12
7.2.1 General.....	12
7.2.2 Human Body Model ESD	12
7.2.3 Machine Model ESD	13
7.2.4 ESD after command to fire and before end of delay time.....	13
8 Expression of results	14
8.1 Electric detonators.....	14
8.2 Electronic detonators.....	14
9 Test report	15
Annex A (normative) Adjustment of the electrostatic discharge generator for testing electric detonators	16
A.1 General.....	16
A.2 Apparatus	16
A.3 Procedure	17
Annex B (normative) Function test for electronic detonators	19
B.1 Principle	19
B.2 Apparatus	19
B.3 Preparation of test sample	19
B.4 Procedure	19
B.4.1 Test pieces from electronic detonators without delay time	19
B.4.2 Test pieces from electronic detonators with delay time	19
B.5 Expression of result	20