



BSI Standards Publication

Explosives for civil uses — Detonators and detonating cord relays

Part 19: Verification of all-fire impulse and no-fire impulse of electric detonators

National foreword

This British Standard is the UK implementation of EN 13763-19:2025. It supersedes BS EN 13763-19:2003, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee CII/61, Explosives for civil uses.

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

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Date	Text affected

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**Explosives for civil uses - Detonators and detonating cord
relays - Part 19: Verification of all-fire impulse and no-fire
impulse of electric detonators**

Explosifs à usage civil - Détonateurs et relais pour
cordeau détonant - Partie 19: Vérification de
l'impulsion de tout feu et de l'impulsion de non feu des
détonateurs électriques

Explosivstoffe für zivile Zwecke - Zünder und
Sprengschnurverzögerer - Teil 19: Überprüfung des
Gesamtzündimpulses und des Nichtzündimpulses
elektrischer Zünder

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

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European foreword

This document (EN 13763-19:2025) 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of an identical text or by endorsement, at the latest by April 2026, and conflicting national standards shall be withdrawn at the latest by April 2026.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 13763-19:2003.

In comparison with the previous edition, the following technical modifications have been made:

- a) the document title has been changed from “Detonators and relays — Part 19: Determination of firing impulse of electric detonators” to “Detonators and detonating cord relays — Part 19: Verification of all-fire impulse and no-fire impulse of electric detonators”;
- b) the Scope has been revised to clarify the covered and not covered explosives;
- c) the normative references have been updated;
- d) the terminology entries 3.1, 3.2, 3.3 and 3.4 have been removed;
- e) Clause 4 “Principle” has been added;
- f) in the clause “Apparatus”, the alternative apparatus, former subclause 5.2, has been removed;
- g) the clause “Test pieces” is now called “Preparation of test sample”, has been revised to clarify the number and kind of test pieces and the conditioning step has been moved there from the Clause “Procedure”;
- h) the clause “Procedure” has been restructured, revised and further detailed to adjust and clarify the statistical procedure and electrical parameters and the former Clause 7 “Calculation of test results” has been integrated;
- i) Clause 8 “Expression of results” has been added;
- j) the clause “Test report” does no longer require conformity with EN ISO/IEC 17025 and the information to be provided has been revised;
- k) former Annex A “Range of applicability of the test method” has been removed;
- l) a new Annex A “Determination of the pulse duration for 50 %-firing using the Bruceton method” and a new Annex B “Determination of the pulse duration for 50 %-firing using the Langlie method” have been added;
- m) Annex ZA has been updated;
- n) the Bibliography has been added and lists, e.g. EN ISO/IEC 17025:2017.