



BSI Standards Publication

Explosives for civil uses — Detonators and detonating cord relays

Part 16: Verification of delay time accuracy of electric and non-electric
detonators, surface connectors and detonating cord relays

National foreword

This British Standard is the UK implementation of EN 13763-16:2025. It supersedes [BS EN 13763-16:2003](#), which is withdrawn.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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electric and non-electric detonators, surface connectors
and detonating cord relays

Explosifs à usage civil - Détonateurs et relais pour
cordeau détonant - Partie 16: Vérification de la
précision du temps de retard des détonateurs
électriques et non électriques, des connecteurs de
surface et des relais pour cordeau détonant

Explosivstoffe für zivile Zwecke - Zünder und
Sprengverzögerer - Teil 16: Überprüfung der
Verzögerungsgenauigkeit von elektrischen und
nichtelektrischen Zündern, Oberflächenverbindern
und Sprengschnurverzögerern

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European foreword

This document (EN 13763-16:2025) 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of an identical text or by endorsement, at the latest by April 2026, and conflicting national standards shall be withdrawn at the latest by April 2026.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 13763-16:2003.

EN 13763-16:2025 includes the following significant technical changes with respect to EN 13763-16:2003:

- a) the document title has been changed from “Detonators and relays — Part 16: Determination of delay accuracy” to “Detonators and detonating cord relays — Part 16: Verification of delay time accuracy of electric and non-electric detonators, surface connectors and detonating cord relays”;
- b) the Introduction has been removed;
- c) the Scope has been revised to clarify the covered and not covered explosives;
- d) the normative references have been updated;
- e) the terminology entries 3.1 and 3.2 have been removed;
- f) Clause 4 “Principle” has been added;
- g) the clause “Apparatus” has been updated;
- h) the clause “Test pieces” is now called “Preparation of test sample”, the number of test pieces per nominal delay time has been reduced and the conditioning step has been moved there from the Clause “Procedure”;
- i) the clause “Procedure” has been revised and the specifications on the values to be calculated have been moved from here;
- j) Clause 8 “Expression of results” has been completely revised;
- 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) former Annex A “Range of applicability of the test method” has been removed;
- m) former Annex B “Calculation procedure” is now Annex A;
- n) former Annex C “Guidance for theoretical verification” has been removed;
- o) Annex ZA has been updated;
- p) the Bibliography has been added and lists, e.g. EN ISO/IEC 17025:2017.