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## Alarm systems - Intrusion and hold-up systems - Part 13: Pyrotechnic Obscuration Security Devices

## EESTI STANDARDI EESSÕNA

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| Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 08.05.2020. | Date of Availability of the European standard is 08.05.2020.   |
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ICS 13.320

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ICS 13.320

English Version

## Alarm systems - Intrusion and hold-up systems - Part 13: Pyrotechnic Obscuration Security Devices

Systèmes d'alarme - Systèmes d'alarme contre l'intrusion et  
les hold-up - Partie 13: Dispositifs de sécurité  
pyrotechniques à pouvoir opacifiant

Alarmanlagen - Einbruch- und Überfallmeldeanlagen - Teil  
13: Pyrotechnisches Verrauchungs-Gerät

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European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

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

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## European foreword

This document (EN 50131-13:2020) has been prepared by CLC/TC 79, "Alarm systems".

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) 2021-01-27
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2023-01-27

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

The series EN 50131 will consist of the following parts, under the general title "*Alarm systems – Intrusion and hold-up systems*":

|            |  |
|------------|--|
| Part 1     | System requirements  |
| Part 2–2   | Intrusion detectors – Passive infrared detectors                             |
| Part 2–3   | Requirements for microwave detectors   |
| Part 2–4   | Requirements for combined passive infrared and microwave detectors           |
| Part 2–5   | Requirements for combined passive infrared and ultrasonic detectors          |
| Part 2–6   | Opening contacts (magnetic)  |
| Part 2–7-1 | Intrusion detectors – Glass break detectors (acoustic)                       |
| Part 2–7-2 | Intrusion detectors – Glass break detectors (passive)                        |
| Part 2–7-3 | Intrusion detectors – Glass break detectors (active)                         |
| Part 3     | Control and indicating equipment   |
| Part 4     | Warning devices  |
| Part 5–3   | Requirements for interconnections equipment using radio frequency techniques |
| Part 6     | Power supplies   |
| Part 7     | Application guidelines   |
| Part 8     | Security fog devices   |
| Part 13    | Pyrotechnic Obscuration Security Devices                                     |

## Introduction

This document applies to a Pyrotechnic obscuration security device. This document is part of the Intruder and Hold-up Alarm System (I&HAS) standard series.

The purpose of a pyrotechnic obscuration security device is to reduce the visibility in a protected area by the use of a non-toxic pyro obscuration system in order to form a barrier between the criminal and the criminal's intended target.

This document is intended to define the requirements of a security Pyrotechnic Obscuration Security Device and to set up performance criteria in order to comply with the purpose described above.

Pyrotechnic obscuration security devices are not explosives, they produce smoke by combustion.

Pyrotechnic obscuration security device differs from Fog obscuration devices in the generation and mean of obscuration. The safety requirements for pyrotechnical products (marketing, transport, manipulation, disposal...) are set forth in European regulation. This document is not intended to provide with criteria to assess the compliance with these regulations.

This document has been designed to be flexible enough to encourage and encompass future developments in the field of security obscuration device.

## 1 Scope

This document specifies the requirements for pyrotechnic obscuration security devices as a part of an IAS. It covers application and performance and specifies the necessary tests and trials to ensure efficiency and reliability of such obscuration devices.

This document is not intended to cover Hold-up alarm systems, standalone or vehicular security pyrotechnic obscuration security device.

This document also gives guidelines on the criteria for design, installation, operation and maintenance of security pyrotechnic obscuration security device.

NOTE This document does not deal with CE marking, chemical (REACH/CLP) or transport regulation requirements for pyrotechnical devices set forth in the relevant European regulation and harmonized standards issued for this purpose.

## 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 16263-3, *Pyrotechnic articles - Other pyrotechnic articles - Part 3: Categories and types*

EN 50130-4, *Alarm systems - Part 4: Electromagnetic compatibility - Product family standard: Immunity requirements for components of fire, intruder, hold up, CCTV, access control and social alarm systems*

EN 50130-5, *Alarm systems - Part 5: Environmental test methods*

EN 50131-1, *Alarm systems - Intrusion and hold-up systems - Part 1: System requirements*

EN 50131-5-3, *Alarm systems - Intrusion systems - Part 5-3: Requirements for interconnections equipment using radio frequency techniques*

EN 50131-6, *Alarm systems - Intrusion and hold-up systems - Part 6: Power supplies*

CLC/TS 50131-7, *Alarm systems - Intrusion and hold-up systems - Part 7: Application guidelines*

EN 60068-2-75, *Environmental testing - Part 2-75: Tests - Test Eh: Hammer tests*

EN 60529, *Degrees of protection provided by enclosures (IP Code)*

EN 60730 (series), *Automatic electrical controls for household and similar use*

EN 61508 (series), *Functional safety of electrical/electronic/programmable electronic safety-related systems*

EN 62262, *Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code)*

## 3 Terms, definitions and abbreviations

### 3.1 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 50131-1 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <https://www.iso.org/obp>