Irish Standard
I.S. EN 50131-2-7-2:2012

Alarm systems - Intrusion and hold-up systems -- Part 2-7-2: Intrusion detectors - Glass break detectors (passive)

I.S. EN 50131-2-7-2:2012

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Alarm systems - Intrusion and hold-up systems - Part 2-7-2: Intrusion detectors - Glass break detectors (passive)

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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 CENELEC 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 CENELEC 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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CENELEC

European Committee for Electrotechnical Standardization
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Europäisches Komitee für Elektrotechnische Normung

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Contents

Foreword

This document (EN 50131-2-7-2:2012) 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)	2013-08-13
• latest date by which the national standards conflicting with this document have to be withdrawn	(dow)	2015-08-13

This document supersedes CLC/TS 50131-2-7-2:2009.

This European Standard provides for security Grades 1 to 4 (see EN 50131-1) glass break (passive) detectors installed in buildings, and uses environmental classes I to IV (see EN 50130-5).

The purpose of a detector is to detect the energy exclusively emitted by the physical destruction of a glass pane, which allows intrusion to the monitored area for example in doors, windows or enclosures and to provide the necessary range of signals or messages to be used by the rest of the intruder alarm system.

Functions additional to the mandatory functions specified in this standard may be included in the detector, providing they do not adversely influence the correct operation of the mandatory functions.

The number and scope of these signals or messages may be more comprehensive for systems that are specified at the higher Grades.

This standard is only concerned with the requirements and tests for the detector. Other types of detectors are covered by other documents identified as TS / EN 50131-2-x.

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

1 Scope

This European Standard is for passive surface mounted glass break detectors installed in buildings and provides for security Grades 1 to 4 (see EN 50131-1), specific or non-specific wired or wire-free detectors, and uses environmental classes I to IV (see EN 50130-5). This European Standard does not include requirements for passive surface mounted glass break detectors intended for use outdoors.

A detector shall fulfil all the requirements of the specified Grade.

Functions additional to the mandatory functions specified in this standard may be included in the detector, providing they do not adversely influence the correct operation of the mandatory functions.

This European Standard does not apply to system interconnections.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 50130-4	*Alarm systems — Part 4: Electromagnetic compatibility — Product family standard: Immunity requirements for components of fire, intruder and social alarm systems*
EN 50130-5	*Alarm systems — Part 5: Environmental test methods*
EN 50131-1:2006	*Alarm systems — Intrusion and hold-up systems — Part 1: System requirements*
EN 50131-6	*Alarm systems — Intrusion systems — Part 6: Power supplies*
EN 60068-1:1994	*Environmental testing — Part 1: General and guidance (IEC 60068-1:1988 + A1:1992 + corrigendum Oct. 1988)*
EN 60529	*Degrees of protection provided by enclosures (IP code) (IEC 60529)*

3 Terms, definitions and abbreviations

For the purposes of this document, the terms, definitions and abbreviations given in EN 50131-1:2006 and the following apply.

3.1 Terms and definitions

3.1.1
glass breakage
physical destruction of a glass pane, which allows intrusion to the monitored area, for example in doors, windows or enclosures

3.1.2
passive surface mounted glass break detector
detector that is mounted on a glass pane, which detects the energy emitted by a glass breakage of the pane the detector is mounted on

3.1.3
Basic Test Source
signal simulator designed to verify the basic function of the detector