

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Alarm systems – Intrusion and hold-up systems –
Part 2-72: Intrusion detectors – Glass break detectors (passive)**

**Systèmes d'alarme – Systèmes d'alarme contre l'intrusion et les hold-up –
Partie 2-72: Détecteurs d'intrusion – Détecteurs de bris de glace (passifs)**



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

ALARM SYSTEMS – INTRUSION AND HOLD-UP SYSTEMS –**Part 2-72: Intrusion detectors – Glass break detectors (passive)**

FOREWORD

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International Standard IEC 62642-2-72 has been prepared by IEC technical committee 79: Alarm and electronic security systems.

This standard is based on EN 50131-2-7-2 (2012) and its IS1 (2014).

The text of this standard is based on the following documents:

FDIS	Report on voting
79/512/FDIS	79/528/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts in the IEC 62642 series, published under the general title *Alarm systems – Intrusion and hold-up systems*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

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INTRODUCTION

This part 2-72 of the IEC 62642 series concerns of intrusion and hold-up alarm systems (I&HAS) installed in buildings. It includes devices that are installed inside or outside of the supervised premises and mounted in indoor or outdoor environments. The other parts of this series of standards are as follows:

- Part 1 System requirements
- Part 2-2 Intrusion detectors – Passive infrared detectors
- Part 2-3 Intrusion detectors – Microwave detectors
- Part 2-4 Intrusion detectors – Combined passive infrared / Microwave detectors
- Part 2-5 Intrusion detectors – Combined passive infrared / Ultrasonic detectors
- Part 2-6 Intrusion detectors – Opening contacts (magnetic)
- Part 2-71 Intrusion detectors – Glass break detectors (acoustic)
- Part 2-72 Intrusion detectors – Glass break detectors (passive)
- Part 2-73 Intrusion detectors – Glass break detectors (active)
- Part 3 Control and indicating equipment
- Part 4 Warning devices
- Part 5-3 Interconnections – Requirements for equipment using radio frequency techniques
- Part 6 Power supplies
- Part 7 Application guidelines
- Part 8 Security fog devices/systems

ALARM SYSTEMS – INTRUSION AND HOLD-UP SYSTEMS –

Part 2-72: Intrusion detectors – Glass break detectors (passive)

1 Scope

This part of IEC 62642 defines passive surface mounted glass break detectors installed in buildings and provides for security grades 1 to 4 (see IEC 62642-1), specific or non-specific wired or wire-free detectors, and uses environmental classes I to IV (see IEC 62599-1). This International Standard does not include requirements for passive surface mounted glass break detectors intended for use outdoors.

A detector complies with 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 International 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.

IEC 60068-2-52:1984, *Basic environmental testing procedures – Part 2: Tests – Test Kb: Salt mist, cyclic (sodium, chloride solution)*¹

IEC 62599-1, *Alarm systems – Part 1: Environmental test methods*

IEC 62599-2, *Alarm systems – Part 2: Electromagnetic compatibility – Immunity requirements for components of fire and security alarm systems*

IEC 62642-1, *Alarm systems – Intrusion and hold-up systems – Part 1: System requirements*

3 Terms, definitions and abbreviations

For the purposes of this document, the terms, definitions and abbreviations given in IEC 62642-1, as well as the following apply.

3.1 Terms, definitions and abbreviations

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

¹ First edition. This edition has been replaced in 1996 by IEC 60068-2-52:1996, *Environmental testing – Part 2: Tests – Test Kb: Salt mist, cyclic (sodium, chloride solution)*.