

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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CONTENTS

FOREWORD.....	5
INTRODUCTION.....	7
1 Scope.....	8
2 Normative references	8
3 Terms, definitions and abbreviations	8
3.1 Terms, definitions and abbreviations.....	8
3.2 Abbreviations.....	9
4 Functional requirements	9
4.1 Event processing	9
4.2 Operational requirements.....	10
4.2.1 Time interval between intrusion signals or messages.....	10
4.2.2 Switch on delay	11
4.2.3 Self tests	11
4.3 Detection	11
4.3.1 Detection performance.....	11
4.3.2 Indication of detection.....	12
4.4 Immunity to false alarm sources.....	12
4.4.1 General	12
4.4.2 Immunity to small objects hitting the glass.....	12
4.4.3 Immunity to soft objects hitting the glass	12
4.4.4 Immunity to hard objects hitting the glass	12
4.4.5 Immunity to static pressure.....	12
4.4.6 Immunity to dynamic pressure	12
4.4.7 Immunity to wide band noise.....	13
4.5 Tamper security.....	13
4.5.1 General	13
4.5.2 Resistance to and detection of unauthorised access to the inside of the detector through covers and existing holes.....	13
4.5.3 Detection of removal from the mounting surface	13
4.5.4 Detection of masking	13
4.5.5 Immunity to magnetic field interference.....	14
4.6 Electrical requirements	14
4.6.1 General	14
4.6.2 Detector current consumption	14
4.6.3 Slow input voltage rise and voltage range limits.....	14
4.6.4 Input voltage ripple	14
4.6.5 Input voltage step change.....	14
4.7 Environmental classification and conditions	15
4.7.1 Environmental classification.....	15
4.7.2 Immunity to environmental conditions	15
5 Marking, identification and documentation	15
5.1 Marking and/or identification	15
5.2 Documentation.....	15
6 Testing.....	16
6.1 General.....	16
6.2 General test conditions	16

6.2.1	Standard laboratory conditions for testing.....	16
6.2.2	General detection testing environment and procedures.....	16
6.3	Basic detection test.....	16
6.3.1	General	16
6.3.2	Basic test source	17
6.3.3	Basic detection test method.....	17
6.4	Performance tests.....	17
6.4.1	General	17
6.4.2	Verification of detection performance.....	17
6.4.3	Hole drilling with a diamond hole saw	18
6.4.4	Glass cutting	19
6.5	Switch-on delay, time interval between signals, and indication of detection.....	19
6.6	Fault condition signals or messages: self tests	19
6.7	Tests of immunity to false alarm sources	20
6.7.1	General	20
6.7.2	Immunity to small objects hitting the glass	20
6.7.3	Immunity to soft objects hitting the glass	21
6.7.4	Immunity to hard objects hitting the glass	21
6.7.5	Immunity to static pressure.....	21
6.7.6	Immunity to dynamic pressure	22
6.7.7	Immunity to wide band noise based using IC's.....	22
6.8	Tamper security	23
6.8.1	General	23
6.8.2	Prevention of unauthorised access to the inside of the detector through covers and existing holes	23
6.8.3	Detection of removal from the mounting surface	23
6.8.4	Resistance to magnetic field interference	23
6.8.5	Detection of masking	23
6.9	Electrical tests	24
6.9.1	General	24
6.9.2	Detector current consumption	24
6.9.3	Slow input voltage change and input voltage range limits	24
6.9.4	Input voltage ripple	25
6.9.5	Input voltage step change.....	25
6.9.6	Total loss of power supply	25
6.10	Environmental classification and conditions	25
6.11	Marking, identification and documentation	26
6.11.1	Marking and/or identification.....	26
6.11.2	Documentation	27
Annex A (normative)	Catalogue of standard glass types	28
Annex B (informative)	List of small tools suitable for testing immunity of casing to attack.....	29
Annex C (normative)	Dimensions and requirements of a standard test magnet	30
C.1	Reference documents	30
C.2	Requirements	30
Annex D (normative)	Immunity test: small objects hit sensitivity.....	33
Annex E (normative)	Immunity test: soft objects hit sensitivity.....	34
Annex F (normative)	Immunity test: hard objects hit sensitivity	35
Annex G (normative)	Immunity test: static pressure sensitivity	36

Annex H (normative) Immunity test: dynamic pressure sensitivity.....	37
Annex I (normative) General testing matrix	38
Annex J (normative) Performance test setup and alternative performance test setup	40
J.1 Performance test setup	40
J.2 Alternative performance test setup.....	41
Annex K (normative) Performance sensitivity test	43
Bibliography.....	44
Figure C.1 – Test magnet – Magnet type 1	31
Figure C.2 – Test magnet – Magnet type 2	32
Figure D.1 – Immunity test setup for small object hit sensitivity.....	33
Figure E.1 – Immunity test setup for soft object hit sensitivity	34
Figure F.1 – Immunity test setup for hard object hit sensitivity	35
Figure G.1 – Immunity test setup for static pressure sensitivity	36
Figure H.1 – Immunity test setup for dynamic pressure sensitivity.....	37
Figure J.1 – Performance test setup	40
Figure J.2 – Alternative performance test setup	42
Figure K.1 – Passive surface mounted glass break detectors test setup.....	43
Table 1 – Events to be processed by grade	9
Table 2 – Generation of Indication signals or messages.....	10
Table 3 – Performance test requirements.....	11
Table 4 – Tamper security requirements	13
Table 5 – Electrical requirements.....	14
Table 6 – Operational tests	26
Table 7 – Endurance tests	26
Table A.1 – Standard glass types.....	28
Table I.1 – Test and sample matrix	38
Table J.1 – Performance test matrix.....	41
Table J.2 – Alternative performance test matrix	41

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.

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)*.