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**NATIONAL STANDARD OF THE  
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**GB/T 36546-2018**

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**Intrusion and hold-up systems -- Technical requirements for  
warning devices**

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### Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard uses the redrafting method to modify the use of IEC 62642-4.2010 "Alarm System Intrusion and Emergency Alarm System Part 4.

Alarm device.

This standard has more structural adjustments than IEC 62642-4.2010. This standard and IEC 62642-4 are listed in Appendix A.

### 2010 structural change table.

This standard has technical differences compared to IEC 62642-4.2010, and the clauses involved in the difference have passed the margin position on the outer side.

The vertical single line (|) is marked, and a list of the corresponding technical differences and causes is given in Appendix B.

The following editorial changes have been made to this standard.

---Modified the standard name, consistent with the existing standard series;

--- Table 6 to increase the size of the flat steel strip description "width x thickness x length" (see 5.2.1.5);

--- Added informative Appendix A and Appendix B.

This standard was proposed by the Ministry of Public Security of the People's Republic

This standard is under the jurisdiction of the National Security and Alarm System Standardization Technical Committee (SAC/TC100).

This standard was drafted. National Security and Alarm System Product Quality Supervision and Inspection Center (Shanghai), National Security and Alarm System

Quality Supervision and Inspection Center (Beijing), Bosch (Zhuhai) Security System Co., Ltd., Honeywell Security (China) Co., Ltd., Zhongan

Union Sensing (Shenzhen) Co., Ltd.

## 1 Scope

This standard specifies the classification, technical requirements, test methods and inspection rules of alarm devices in intrusion and emergency alarm systems.

This standard applies to the design, production and use of remote power supply/self-powered alarm devices in intrusion and emergency alarm systems.

test.

## 2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 2421.1-2008 Overview and guidelines for environmental testing of electrical and electronic products (IEC 60068-1.1988, IDT)

GB/T 2423.55 Environmental testing of electrical and electronic products - Part 2. Test methods Test Eh. Hammer test (GB/T 2423.55-

2006, IEC 60068-2-75.1997, IDT)

GB/T 2828.1. Sampling and sampling procedures - Part 1 . Batch-to-batch sampling plan searched by the acceptance quality limit (AQL)

GB/T 3785.1-2010 Electroacoustic sound level meters - Part 1. Specification (IEC 61672-1:2012, IDT)

GB/T 4208 enclosure protection grade (IP code) (GB/T 4208-2017, IEC 60529:2013, IDT)

GB/T 15211 Safety and alarm equipment environmental adaptability requirements and test methods (GB/T 15211-2013, IEC 62599-

1:2010, MOD)

GB/T 15408 safety protection system power supply technical requirements

GB 16796 Safety and security alarm equipment safety requirements and test methods

GB 17799.3 Electromagnetic compatibility common standard emissions in residential, commercial and light industrial environments (GB 17799.3-2012,

IEC 61000-6-3:2001, IDT)

GB/T 20138-2016 Protection level of external electrical equipment casing against external mechanical collision (IK code) (IEC 62262:2002, IDT)

GB/T 30148 safety protection alarm equipment electromagnetic compatibility immunity requirements and test methods (GB/T 30148-2013,

IEC 62599-2:2010, MOD)

GB/T 32581 technical requirements for intrusion and emergency alarm systems (GB/T 32581-2016, IEC 62642-1:2010, NEQ)

### 3.1 Terms and definitions

The following terms and definitions apply to this document.

#### 3.1.1

Sound alarm audible alarm

A distinctive sound that is emitted in response to an alarm.

#### 3.1.2

Alarm device warning device

A device that gives an audible alarm to an announcement.

Note. The alarm device can also provide an alarm indication.

#### 3.1.3

Announcement notification

The process of transmitting an alarm, tamper or fault condition to an alarm device and/or an

alarm transmission system.

[GB/T 32581-2016, definition 3.1.37]

#### 3.1.4

Indication indication

An audible, visual, or other perceptible form of information generated by an alarm system.

[GB/T 32581-2016, definition 3.1.34]

#### 3.1.5

External warning device externalwarningdevice

Designed to be installed outside the protected area, an alarm device that gives an audible alarm to the announcement.

#### 3.1.6

Internal warning device internalwarningdevice

Designed to be installed inside the protected area, an alarm device that gives an audible alarm to the announcement.

#### 3.1.7

Shell enclosure

A housing that is typically comprised of a backing plate and a panel.

#### 3.1.8

External power supply externalpowersource

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#### 3.1.9

Remote power remotepowersource

A power source that is not part of the alarm device.

#### 3.1.10

Remote power supply alarm device remotelypoweredwarningdevice

There is no alarm device with its own power supply.

#### 3.1.11

Self-powered alarm device selfpoweredwarningdevice

Self-powered alarm device.