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Intrusion and hold-up systems - Intrusion detector

入侵和紧急报警系统 入侵探测器

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part

1. Structure and drafting rules for standardization documents" Drafting. This document replaces GB 10408.1-2000 "Intrusion Detectors Part

1 Scope

China's mandatory national standard for intrusion detectors within intrusion and hold-up systems. The detector is the sensor at the edge of an alarm system - passive infrared, microwave, dual-technology, magnetic contact, glass-break - and the standard exists because a detector fails in two opposite ways and both matter. A missed intrusion defeats the system's purpose; a false alarm, repeated, causes the system to be ignored or switched off, which defeats it just as thoroughly and wastes police response. So the requirements are written as a pair: the detection performance against defined intruder movements, and the immunity to the things that cause false alarms - draughts, sunlight, small animals, radio

interference and vibration. The standard also covers tamper protection, because a detector that can be masked, sprayed or unscrewed without raising an alarm is not a security device. Being a GB without /T, it governs what may be sold in China.

This document specifies the product classification, grading and identification, technical requirements, product Instructions, marking, packaging, transportation and storage requirements, establish inspection rules and describe test methods. This document applies to the design, manufacture and inspection of intrusion detectors in intrusion and emergency alarm systems.

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document. For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to This document.

GB/T 2828.1 Sampling procedures for inspection by attributes Part

3.1 Terms and Definitions The terms and definitions defined in

GB/T 32581-2016 and the following apply to this document.

3.1.1 intrusion detector A device that detects, responds to, and generates an intrusion alarm status for intrusions within the detectable range.

Note. An intrusion detector consists of one device or multiple devices. [Source:

GB/T 32581-2016, 3.1.29, modified]

3.1.2 Sensor A component of an intrusion detector that senses a certain physical quantity within the detectable range and converts it into an electrical signal.

3.1.3 processor An intrusion detector component that analyzes and processes the sensor output signal.

3.1.4 The microwave is transmitted into the detectable range and the echo is received, which senses the movement of human body or object within the detectable range and generates an intrusion alarm state. Intrusion detection device.

4 Active infrared intrusion detectors", GB 10408.5-2000 "Intrusion Detectors Part

5.Passive Infrared Detectors for Indoor Use", GB 10408.6-2009 "Microwave and Passive Infrared Composite Intrusion Detection GB/T 10408.8-2008 "Vibration Intrusion Detector", GB 10408.9-2001 "Intrusion Detector Part

9.Passive Intrusion Detector for Indoor Use" Glass Breakage Detector", GB 15209-2006
Magnetic Switch Intrusion Detector, GB 15407-2010 Shielded Microwave Intrusion Detector
Technical Requirements, GB 10408.1-2000, GB 10408.2-2000, GB 10408.3-2000, GB
10408.4-2000, GB 10408.5-2000, GB 10408.6-2009, GB/T 10408.8-2008, GB
10408.9-2001, GB 15209-2006, Compared with GB 15407-2010, in addition to structural
adjustments and editorial changes, the main technical changes are as follows:

- Added product classification, grading and labeling (see Chapter 4);
- Changed the appearance and structural requirements (see 5.1.1,
4.5 of GB 10408.4-2000,
4.3 of GB 10408.6-2009,
5.6 of GB 10408.9-2001,
5.2 of GB 15209-2006 and
4.1 of GB 15407-2010);
- Changed the requirements for enclosure protection level (see 5.1.2,
6.6 of GB 10408.1-2000,
4.5 of GB 10408.4-2000,
4.3.2 of GB 10408.6-2009 and
5.1.2 of GB/T 10408.8-2008);