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China Compulsory Certification Implementation Rules - Burglar alarm products

强制性产品认证实施规则

防盗报警产品

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0 Introduction

This Rules is established based on the safety risk and certification risk of burglar alarm products. It stipulates the basic principles and requirements for the implementation of China Compulsory Certification for burglar alarm products.

This Rules can be used with other general rules issued by Certification and Accreditation Administration (CNCA), such as “China Compulsory Certification Implementation Rules - Manufacturing Enterprise Classification Management, Certification Mode Selection and Determination”, “China Compulsory Certification Implementation Rules – Utilization of Manufacturing Enterprise Testing Resource and Other Certification Results”, “China Compulsory Certification Implementation Rules - Factory Inspection General Requirements”.

The certification body shall make principles for certification according to the general implementation rules and this Rules and implement them accordingly.

Manufacturing enterprise shall ensure that their certified products are capable of sustaining the compliance with the certification and are compatible with the requirements of the standards.

1 Application scope

This Rules applies to burglar alarm products, including intrusion detector, burglar alarm controller, vehicle anti-theft alarm system.

Due to the changes in the laws, regulations or related product standards, technology, industry policies and other causes which may change the applicable scope, the announcement released by CNCA shall be final and conclusive.

2 Certification basis

Standards for certification are shown in “Compulsory Certification Basis-Standards and Test Items - Burglar Alarm Products” (Attachment 2).

In principle, the latest versions of above standards that are issued by the National Standardization Administration shall be executed. When other versions are required to use, then it shall be executed according to the applicable relevant standards issued by the State Certification and Accreditation Administration (CNCA).

3 Certification modes

The basic certification mode of implementing the China Compulsory Certification for burglar alarm products is:

Type test + initial factory inspection + after-certification supervision

The certification body shall follow the requirements of “China Compulsory

CLIENT shall provide the required materials according to the requirements of application material checklist in certification implementation detailed-rules. Certification body is responsible for auditing, managing, preserving and keeping confidential of the relevant materials, and shall inform the CLIENT of the auditing results.

5.3 Implementation Arrangement

Certification body shall agree with the CLIENT on the relevant responsibilities and arrangement of various aspects of certification implementation. And according to the situation of manufacturing enterprise and classification management AND the requirements of this Rules and certification implementation detailed-rules, DETERMINE the specific program of certification implementation and INFORM CLIENT.

6 Certification implementation

6.1 Type test

6.1.1 Type test plan

Certification body shall formulate the type test plan, after auditing the materials. And INFORM the CLIENT.

Type test plan includes all samples' requirements and quantity, test standard items, laboratory information etc.

6.1.2 Sample requirements of type test

Certification body shall specify requirements for sample-sending / sampling of certification products in certification implementation detailed-rules. Type test samples shall be obtained by certification body via on-site sampling / seal-samples method, OR representative samples are sent by CLIENT for test in accordance with requirements of certification body.

CLIENT shall guarantee that all the samples provided are consistent with actual products. Certification body and/or laboratory shall inspect the authenticity of the samples. If laboratory has any doubt on the authenticity of the samples, it shall explain the situation to certification body and handle accordingly.

6.1.3 Test items of type test

Items of type test are listed in "Compulsory Certification Basis-Standards and Test Items - Burglar Alarm Products" (Attachment 2).

6.1.4 Implementation of type test

Type test shall be conducted in the laboratory designated by CNCA. Laboratory shall conduct the type test to the samples, integrally record the whole test and archive for retaining, so that the test process and results are traceable.

6.1.5 Type test report

Certification body shall make specific provisions on each steps of the certification, and determine all relevant work to be done within the time limit. CLIENT shall cooperate with the certification body actively. In general, certificate will be granted to CLIENT within 90 days, since the certification entrusting is accepted.

7 After-certification supervision

After-certification supervision refers to the supervision implemented to the certified product and manufacturing enterprise. Certification body shall consider the classification management and actual situation of the manufacturing enterprise, and clarify the specific requirements for selecting the method of after-certification supervision in certification implementation detailed-rules.

7.1 After-certification follow-up inspection

7.1.1 Principles for after-certification follow-up inspection

Based on manufacturing enterprise classification management, certification body shall implement the effective follow-up inspection to the certified product and manufacturing enterprise, so as to validate that the quality assurance capacity of the manufacturing enterprise can continuously comply with the certification requirements; and ensure that the certified products are in accordance with standards' requirements; and maintain the conformity with type test samples.

When the after-certification follow-up inspection shall be conducted during the normal production of manufacturing enterprise, "no-advance notice" is preferred. For those products that are not continuously manufactured, CLIENT shall provide the production plan to certification body so that the follow-up inspection can be conducted in an effective way.

7.1.2 Content of after-certification follow-up inspection

Certification body shall formulate the detail contents of requirements of after-certification follow-up inspection, according to "China Compulsory Certification Implementation Rules - Factory Quality Assurance Capability Requirements" and characteristics of burglar alarm products; and clarify them clearly in certification implementation detailed-rules.

7.2 Production on-site sampling test or inspection

7.2.1 Principle

Production on-site sampling test or inspection shall cover all certification product units.

If it adopts "production on-site sampling test or inspection" to implement the after-certification supervision, then CLIENT, manufacturer and manufacturing enterprise shall cooperate.

or revoke the certificate according to the corresponding situations; and announce it publicly.

8 Certificate

8.1 Validity of certificate

The validity of certificate is 5 years. Within the valid period, the validity of the certificate is maintained by depending on the “after-certification supervision” of the certification body.

Before the certification is expired, if it needs to continue to use, CLINET shall put forward the certification entrusting within 90 days before the expiry date. If the newest “after-certification supervision”, within the certificate validity, is PASS, then certification body shall directly renew the certificate.

8.2 Content of certificate

Content of the certificate shall be consistent with requirements of Article 21 of “China Compulsory Certification Management Method”.

8.3 Change/extension of certificate

After certification, when:

- 1) the content in certificate is changed;
- 2) product characteristics or other items stipulated by certification body are changed; or
- 3) CLIENT requires to extend the scope of certified product that is covered by the certificate; [Translator note: The original text is reformatted to items 1) – 4), for ease of reading]

CLIENT shall put forward a “change/extension entrusting” to certification body. Only after the approval of certification body, may the change be implemented.

Certification body shall clearly specify the certification change/extension requirements in certification implementation detailed-rules under risk control. Certification body shall review, test and/or inspect (when applicable) the change/extension content. Only after approval of evaluation, may the change/extension be approved.

8.4 Certificate's cancellation, suspension and withdrawal

Certificate's cancellation, suspension and withdrawal shall be implemented in accordance with the “China Compulsory Certification Management Method” and “Compulsory product certificate cancellation, suspension and withdrawal implementation rules”, and relevant regulations of certification body. Certification body shall determine the classification and scope of the product that does not comply with the certification requirements; and adopt appropriate way to publicly announce the certificate of cancellation, suspension and withdrawal.

			3. If shape (size) of circuit board is different, it cannot be applied as an unit. 4. If alarm transmission method (wired, wireless, bus etc.) is different, it cannot be applied as an unit.
		Indoor passive glass-break detector	1. Circuit working principle, safety structure, safety-related components, key components which affect functions and performances of intrusion detector are all the same. Products of several models, ONLY different in detection range, shall be applied as an unit. 2. f power supply is different, e.g. switch power, AC/DC, AC/AC. DC (category III power), it cannot be applied as an unit. 3. If shape (size) of circuit board is different, it cannot be applied as an unit. 4. If alarm transmission method (wired, wireless, bus etc.) is different, it cannot be applied as an unit.
		Magnetic switch intrusion detector	1. Circuit working principle, safety structure, safety-related components, key components which affect functions and performances of intrusion detector are all the same. Products of several models, ONLY different in detection range, shall be applied as an unit. 2. f power supply is different, e.g. switch power, AC/DC, AC/AC. DC (category III power), it cannot be applied as an unit. 3. If shape (size) of circuit board is different, it cannot be applied as an unit. 4. Magnetic switch intrusion detector used for metal door, shutter door, sliding door (aluminum alloy) AND magnetic switch intrusion detector used for general wood doors-windows cannot be applied as an unit.
		Other types of intrusion detector	1. Circuit working principle, safety structure, safety-related components, key components which affect functions and performances of intrusion detector are all the same. Products of several models, ONLY different in detection range, shall be applied as an unit. 2. f power supply is different, e.g. switch power, AC/DC, AC/AC. DC (category III power), it cannot be applied as an unit. 3. If shape (size) of circuit board is different, it cannot be applied as an unit. 4. If alarm transmission method (wired, wireless, bus etc.) is different, it cannot be applied as an unit. 5. Intrusion detector for indoor use AND intrusion detector for outdoor use cannot be applied as an unit.
2	Burglar alarm controller		1. Products of different power supply (e.g., RC voltage-reducing, transformer, switching power supply, power adapter) cannot be applied as an unit. 2. Products of different alarm transmission method (wired, wireless, bus etc.) cannot be applied as an unit. 3. Products of different circuit board shape, structure (Circuit working principle) cannot be applied as an unit. 4. Products of different setting / de-alarming mode cannot be applied as an unit.
3	Vehicle anti-theft alarm system		1. Vehicle anti-theft alarm products of different setting / de-alarming mode, different technology OR different alarm transmission method cannot be applied as an unit. 2. Vehicle anti-theft alarm products with different shape or different structure of circuit board cannot be applied as an unit.

		infrared detector	enclosure protection degree	Enclosure protection degree	GB 10408.5 GB 16796	6.6 of GB 10408.1
			Function, performance and tamper protection	Detection range		5.1.1 of GB 10408.5
				Anti background temperature change		5.1.4 of GB 10408.5
				Anti-headlights (light)		5.1.5 of GB 10408.5
				Anti-turbulent airflow		5.1.6 of GB 10408.5
				Temper protection		5.1.7 of GB 10408.5
			Power supply			6.1.4 of GB 10408.1; “when power supply voltage is less than the stipulated value, it shall generate alarm state or failure state” is not required.
			Interface capabilities			6.5 of GB 10408.1
			Environmental adaptability			6.2.3 and 6.2.7 of GB 10408.1
			Electromagnetic compatibility			6.2.4~6.2.6 of GB 10408.1
			Safety			4.6.2 of GB 16796; if it uses AC 220V power supply, it shall also comply with provisions of 4.4.3, 4.4.4 and 4.4.9 of GB 16796.
			Enhanced and optional (communication modules)			6.9 of GB 10408.1; transmitting frequency of the radio transmission shall be within 314~316 MHz, 430~432 MHz, 433.00~434.79 MHz; occupied bandwidth shall not exceed 400 kHz; or transmitting frequency is within 779~787 MHz, transmit power limit shall be 10 mw (excluding special frequency approved by the State Radio Management Department).
		Indoor microwave Doppler detectors	Mark, enclosure protection degree	Mark	GB 10408.1 GB 10408.3 GB 16796	6.7 of GB 10408.1
				Enclosure protection degree		6.6 of GB 10408.1
			Function, performance and tamper protection	Detection range		5.1.2~5.1.6 of GB 10408.3
				Frequency		5.1.1 of GB 10408.3
				Temper protection		5.1.8 of GB 10408.3
			Power supply			6.1.4 of GB 10408.1; “when power supply voltage is less than the

			Electromagnetic compatibility			4.9.1, 4.9.3, 4.9.5 of GB 10408.6
			Safety			4.11.2 of GB 10408.6; if it uses AC 220V power supply, it shall also comply with provisions of 4.4.3, 4.4.4 and 4.4.9 of GB 16796.
			Enhanced and optional (communication modules)			6.9 of GB 10408.1; transmitting frequency of the radio transmission shall be within 314~316 MHz, 430~432 MHz, 433.00~434.79 MHz; occupied bandwidth shall not exceed 400 kHz; or transmitting frequency is within 779~787 MHz, transmit power limit shall be 10 mw (excluding special frequency approved by the State Radio Management Department).
		Vibration intrusion detector	Mark, enclosure protection degree	Mark	GB 10408.1 GB 10408.8 GB 16796	6.7 of GB 10408.1
				Enclosure protection degree		5.1.2 of GB/T 10408.8
			Function and temper protection	Alarm function		5.2.1 of GB/T 10408.8
				Temper protection		5.2.8 of GB/T 10408.8
			Power supply			6.1.4 of GB 10408.1
			Interface capabilities			6.5 of GB 10408.1
			Environmental adaptability			5.3 of GB/T 10408.8
			Electromagnetic compatibility			6.2.4~6.2.6 of GB 10408.1
			Safety			4.6.2 of GB 16796; if it uses AC 220V power supply, it shall also comply with provisions of 4.4.3, 4.4.4 and 4.4.9 of GB 16796.
			Enhanced and optional (communication modules)			6.9 of GB 10408.1; transmitting frequency of the radio transmission shall be within 314~316 MHz, 430~432 MHz, 433.00~434.79 MHz; occupied bandwidth shall not exceed 400 kHz; or transmitting frequency is within 779~787 MHz, transmit power limit shall be 10 mw (excluding special frequency approved by the State Radio Management Department).
		Indoor passive glass break detector	Structure, mark, enclosure protection degree	Structure	GB 10408.1 GB 10408.9 GB 16796	5.6 of GB 10408.9
				Mark		6.7 of GB 10408.1
				Enclosure protection degree		6.6 of GB 10408.1
			Function	Alarm function		6.1.1 of GB 10408.1; “detector shall comply with operation requirements

		Other types of intrusion detector	Mark, enclosure protection degree		GB 10408.1 GB 16796	6.7 of GB 10408.1
			Function requirements			6.1.1 of GB 10408.1
			Interface capabilities			6.5 of GB 10408.1
			Environmental adaptability			6.2.3 and 6.2.7 of GB 10408.1
			Electromagnetic compatibility			6.2.4~6.2.6 of GB 10408.1
			Safety			4.6.2 of GB 16796; if it uses AC 220V power supply, it shall also comply with provisions of 4.4.3, 4.4.4 and 4.4.9 of GB 16796.
			Enhanced and optional (communication modules)			6.9 of GB 10408.1; transmitting frequency of the radio transmission shall be within 314~316 MHz, 430~432 MHz, 433.00~434.79 MHz; occupied bandwidth shall not exceed 400 kHz; or transmitting frequency is within 779~787 MHz, transmit power limit shall be 10 mw (excluding special frequency approved by the State Radio Management Department).
2	Burglar alarm controller	Mechanical structure, mark and enclosure protection degree		GB 12663	5.1.2, 5.1.3 and 5.1.6 of GB 12663; 5.1.2.3 is not required for burglar alarm controller with remote control station.	
		Function	Alarm setting and de- alarming		Class A requirement in 5.2.2 of GB 12663, of which item c) in 5.2.2.5 is not tested; alarm setting and de-alarmed in 5.2.2.1 can be done via software.	
			Alarm		Class A requirement in 5.2.3 of GB 12663, of which item c) in 5.2.3.6 is not tested. Burglar alarm controller of remote alarm, temper protection alarm and vandal resistance alarm shall comply with requirements of Class B, Class C in 5.2.3. For products with telephone alarm function, telephone line disconnection alarm function shall be added in vandal resistance alarm in item c) of 5.2.3.1. For products with wireless transmission function, wireless transmission frequency test shall be added. And it can only use the national stipulated or approved frequency. For production of receiving wireless signal detector alarm, item (1) in c) vandal resistance alarm of 5.2.3.1 shall not be tested.	
		Power supply			5.3.1~5.3.3 of GB 12663. For burglar alarm controller with remote control station, remote control station shall be able to monitor the status of main power supply and under-voltage instruction of backup power supply.	
		Environmental adaptability			a), b), d) in 5.4.1 of GB 12663	
		Electromagnetic compatibility			5.4.2 of GB 12663	

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Contact: Wayne Zheng, Sales@ChineseStandard.net

Linkin: <https://www.linkedin.com/in/waynezhengwenrui/>

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