China Security & Fire IoT Sensing Co., Ltd

Add：The 4th Building, WanDai Heng Technology Industrial Park,
Gongchang Road, Guangming District, Shenzhen,China
Tel：+86-755-3326 5362 Email：info@ihornmail.com
Web：www.ihorn-tech.com

2020

SECURITY INTEGRATION

PRODUCTS CATALOG

www.ihorn-tech.com

Professional Alarm
Designer and Manufacturer

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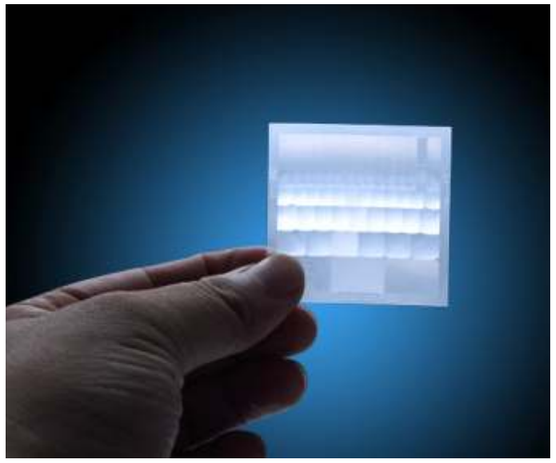
1. China Security & Fire IoT Sensing Co., Ltd is a state-level high tech enterprise of professional security equipment and solution provider. There are over 100 R&D engineers providing full range security products of intruder alarm, home automation and security accessories.

3. Product quality is the life of our enterprise. We have Introduces ISO9001:2000 quality management system and ISO/TS 16949 certification system. We passed UL, CCC, CE, FCC, E-mark, and RoHS in pursuit of excellence. We also bears in mind social responsibility, and has actively introduces the ISO14001 Environmental and OHSAS18001 Health and Safety Management systems. In 2011, we won the American Society for Industrial Security's "New Technology Award", the "China Security Top 10 Brands" for nine consecutive years, and has won in consecutive years the "China Well known Brand of Security Products", "Top Ten National Security Brand". "Most Popular Security Brand", "China Security Industry 50", and the "Safe City Construction Recommended Brand".

About Us

Company Introduction

2. Every Year, we input 10% turnover in R&D field and build long-term cooperation with International research institutions, which have result in over 100 new innovative products and more than 200 registered patents. Our independent Fresnel lens technology break the gap of China in this technology, which also lead our product to world-class qualitative level, creating a new era in optical technology field.



4. Our mission is to make the world safer and more peaceful. We are dedicated to enhancing the security and safety of peoples' property and human life to increase the sense of security. We are your trusted partner. Persistent breakthrough in innovation continues to create greater value for our customers.

D1
GSM Smart Alarm System

Specification

- 32 wireless zones, can expand to 60 wireless sensors.
- Support for 16 RFID tags, 8 remote controllers.
- Touch keypad, voice guide, smart phone application control.
- 9 system languages optional(Chinese, English, French, Italian, Spanish, Danish, Greek, Swedish, Dutch).
- 6 SMS telephone numbers, 6 alarm calling numbers.

Door/Window Open Reminder

Auto-supervision

Long Battery Life

Multi Language / Voice Guide

Voice Memo

RFID / Simple Interface

Available on the APP Store

Available on the Google Play Stie

Main Features

App control	Android and IOS
RFID tags	16
Number of codes	3 codes: 1 for master, 1 for installer, 1 for duress.
Wireless zones	32
Remote controllers	8
Wireless sirens	2
System languages optional	5(English, Chinese, French, German, Spanish)
Reminder	When door and window is open

Communication

phone numbers	6
SMS numbers	6
GSM frequency	850/900/1800/1900MHz

Hardware Extensions

Wired zones	2
Anti-tamper	1

Hardware Parameters

Power adapter	Input 100-240VAC 50/60HZ, output 12VDC 1.0A
Operation voltage of the control panel	12VDC
Back-up battery capacity	2 x 3.7V(950mAH)
Static operating current	80mA
AUX output current	100mA
PGM output max load	DC24V/1A
Built-in siren	85dB
Working temperature	-10℃~+55℃
Wireless working range	100m (no obstacle)
Wireless frequency	433MHz/868MHz

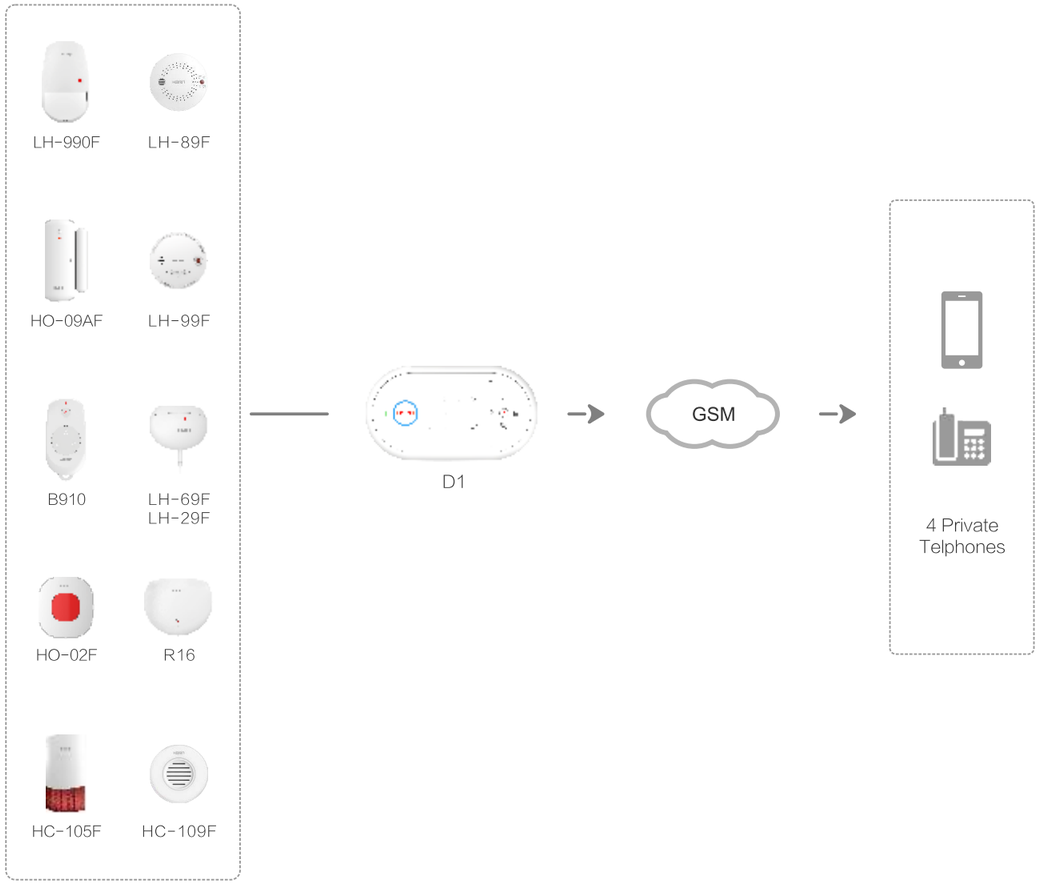
Topological Graph

Status and Demand Analysis

Nowadays, householders want much more than a traditional monitored security system. They prefer a system that can react any kind of risk such as intrusion, fire or some other accidents. We provide you high class professional solution with multiple options.

Solution

To make 24 hours precaution to the community, eliminate illegal intrusion, robbery and theft, D1/LHD8003 are adopted with various wireless detectors to make a perfect intelligent security system. It is stable, efficient, low false alarm and quick response time (time for alarm info sent to center station). The design is novel, aesthetic and cost-efficient.



Wireless Accessories For D1

PIR Motion Detector
LH-990F

- Anti-tamper Alarm
- Spherical Lens
- 110° Detection Angel
- Low Voltage Alarm
- Super Low Power
- Anti-UV Enclosure

Magnetic Contact
HO-09AF

- Anti-tamper Alarm
- Plug & Play
- Low Voltage Alarm
- Super Low Power
- Anti-UV Enclosure

Gas Detector
LH-89F

- Scan QR
- Plug & Play
- 70dB
- 7D / 24H
- Anti-UV Enclosure

Smoke Detector
LH-99F

- Voice Guide
- Smoke Chamber
- Dynamic Floating Compensation
- 85dB
- 10 years Battery life
- Super Low Power

Remote Controller
B910

- SOS
- Low Voltage Alarm
- Super Low Power
- Anti-UV Enclosure

Panic Button
HO-02F

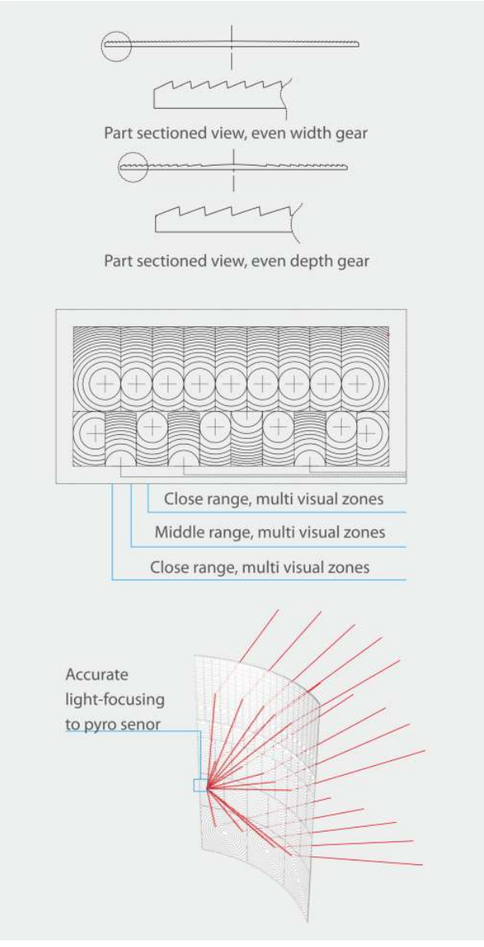
- Anti-UV Enclosure
- SOS
- No Installation
- Thin & Light
- Super Low Power

Intrusion Alarm Technology

The passive infrared detectors detect movement around your house&premises for security purposes. The PIR adopts the passive infrared or the microwave technology or a combination of the two. We provide a full range of passive motion detectors which can promptly and accurately detect intrusion so that the property and human safety could be safely protected .

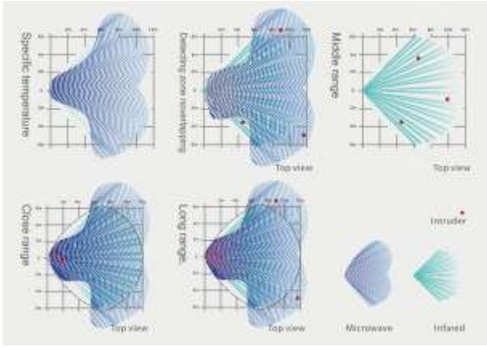
Fresnel Lens Technology

We are the 1st company in China to developed Fresnel Technology, which can be also adjusted with client’s demand. The accuracy is up to 0.001mm.It adopts 5 layers design on the lens, which makes the detection precise and complete with multi areas design.



AND / OR Technology

AND / OR technology is an advanced and innovative technology used in Dual-Tech products, it gets the best detecting effect by software dealing with MW and infrared.



EMI / RFI Technology

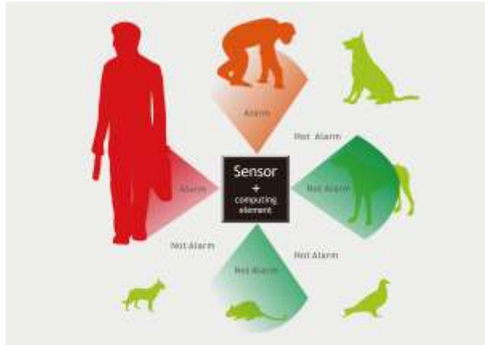
The EMI / RFI technology of IHORN has already exceeded the tandard of the line, the MW module passed CE certificate living up to 0 breakthrough and the second harmonic can be almost zero.

AST Technology

IHORN is the first one ever developed and used the AST Technology. The detector continuously learns the external environment under working, and adjust the software according to the actual environment. For example: fixed or moved object, heavy weather condition, and so on.

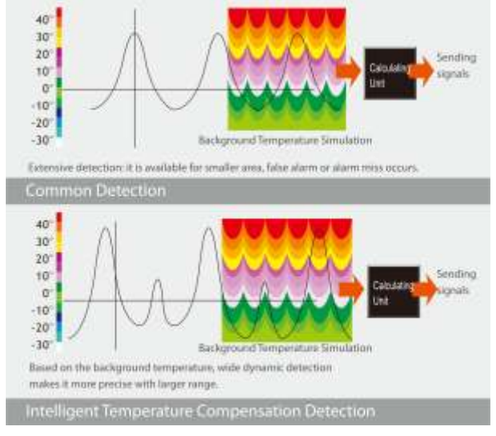
Pet Immunity Technology

Pet immunity up to 35Kg With dual sensor design and Intelligent software analysis, it makes alarm more precise. This technology satisfies the demand of a family with pet.



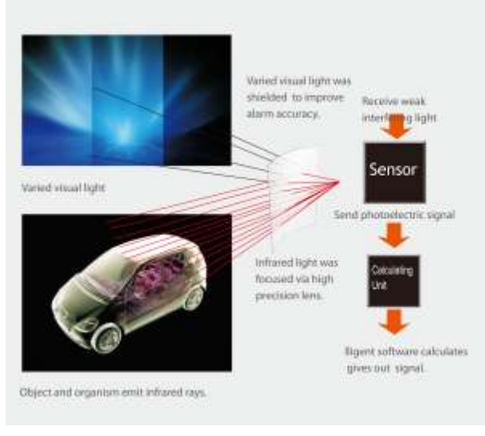
Intelligent Temperature Compensation

It ensures the sensitivity during hot season based on the background temperature, comparing the infrared and alarm threshold. Meanwhile, it reduces the false alarm and alarm miss, with good stability.



White Light Immunity Technology

White light immunity: 10000 Lux The sensor can work through the light variation, and identify the alarm. It can work properly even under high illumination and variation.



LH-950/950C

EN Compliant Passive Infrared Detector

Grade 2 Compliant

SELF-R&D Spherical lens

Fashion Design

Flexible Installation

Specification

Two way temperature compensation

Dynamic threshold adjust technology

Artificial Intelligence Technology

Fresnel spherical lens

EN50131-2-4 Grade 2 Class II compliant

Imported MW module **EN300440** compliant

Unique bracket

Parameters

Working voltage	DC9--16V
Working current	<40mA
Detection	MW+PIR
Range	12m/90°
White light immunity	10000Lux
Alarm output	N.O./N.C. optional
Pulse count	1P/2P optional
RF immunity	80M--2.7G, 10V/m

Wired Detectors

LH-934IC

Outdoor Triple-Tech PIR Detector

The product is a triple technology detector composed by microwave, passive infrared and artificial intelligence, and it is provided with waterproof to be suitable for outdoor usage.

- Microwave using X-Band patch antenna
- Waterproof function for outdoor environment IP 54
- Using Doppler effect and energy analysis
- Special optical filter lens, white light immunity 10000 Lux
- Temperature auto-compensation, avoiding false alarm
- Microwave detection range adjustable
- Pulse count optional
- LED on/off optional
- Alarm output N.C./N.O. optional

CE

LH-922BC

Triple-Tech PIR Detector

The product is a triple technology detector composed by microwave, passive infrared and artificial intelligence, and it is provided with waterproof to be suitable for outdoor usage.

- Microwave using X-Band patch antenna
- AND/OR function (AND means alarm for MW&PIR, OR means alarm for MW or PIR)
- External tamper
- SMT technology, high EMI/RFI immunity
- White light immunity 20000 Lux
- Temperature auto-compensation, avoiding false alarm
- Microwave detection range adjustable
- Pulse count optional
- Innovative railway installation method, easy for installation

CE

LH-931I

Outdoor PIR Detector(Dual-sensors)

Outdoor passive infrared detector works based on infrared spectrum of human body. The product uses special filter lens, and it is provided with waterproof to be suitable for outdoor usage.

- Dual-sensors collecting signal
- Waterproof function for outdoor environment IP 54
- Wide-angle lens and curtain lens optional
- Special optical filter lens, white light immunity 10000 Lux
- Temperature auto-compensation, avoiding false alarm
- Pulse count optional

CE

LH-913C(II)

Ceiling Triple-Tech PIR Detector

Triple technology detector combines microwave and passive infrared with intelligence software. It is provided with ceiling mounted.

- Microwave using X-Band patch antenna
- Microwave detection range adjustable
- 360 degree angle, 8M range
- Ceiling mounted at 3.6M
- Temperature auto-compensation, avoiding false alarm
- Pulse count optional

FC CE

LH-901B+

Pet Immunity PIR Detector

The detector works through detecting the human bodies' infrared spectrum. It is provided with pet immunity.

- Pet immunity 25kg
- Self-developed Fresnel lens technology
- External tamper
- White light immunity 20000 Lux
- Temperature auto-compensation, avoiding false alarm
- Pulse count optional
- Alarm output N.C./N.O. optional
- Innovative railway installation method, easy for installation

LH-933B

Pet Immunity PIR Detector(Dual-sensors)

Pet Immunity passive infrared detector, for indoor using, is designed to avoid misinformation caused by pets.

- Dual-sensors collecting signal
- Pet immunity 35kg
- SMT technology, high EMI/RFI immunity
- White light immunity 20000 Lux
- Temperature auto-compensation, avoiding false alarm
- Pulse count optional
- LED on/off optional
- Alarm output N.C./N.O. optional

LH-501

Glass Break Detector

Glass break detector is a device which responds for glass broken and alarms

- Built-in microprocessor
- SMT technology, high EMI/RFI immunity
- Optional sensitivity
- Lockable alarm mode
- Unique test mode

LH-905A-2

Ceiling PIR Detector

The passive infrared detector works based on infrared spectrum of human body. It is provided with ceiling mounted.

- 360 degree angle, 6M detecting range
- Ceiling mounted at 3.6M
- Temperature auto-compensation, avoiding false alarm
- Three digital pulses optional for different alarm duration signal
- Pulse count optional
- LED on/off optional
- Alarm output N.C.
- 5-30s delay optional

Active Infrared

Detector

Active infrared detector use invisible infrared to scan a define protected area. It consists of active Infrared transmitter and a receiver. Any intruder blocks the beams will be immediately set off an alarm. We provides dual, triple, quad beams, ranging from 30m to 250m, for outdoor perimeter protection.

LHP-100D-IN

Dual Photoelectric Detector

- Digital circuit design, more stable
- Anti-tamper function
- Installation base optional
- Adjust beams easily
- Intelligent adjustment to the environment temperature

MODEL		LHP-40D-IN	LHP-60D-IN	LHP-80D-IN	LHP-100D-IN
Detection method		Infrared photoelectric			
Range	Outdoor	40m	60m	80m	100m
	Indoor	120m	180m	240m	300m
Interruption period		50-270m sec(selectable)			
Frequency		Fixed			
Power input		AC13.8-18V DC12-24V			
Operation temperature		-25℃~+55℃			
Environment humidity		95% max			
Alarm period		2 Sec(±1)			
Alignment angle		±10° vertical, ±90° horizontal			
Alarm output		Form C relay (AC/DC30V 0.5A max)			
Tamper switch		N.C. opens when cover is removed (receiver only)			
IP		IP65			
Aiming lens		Aiming hole			
Mounting		Wall or pole			
Weight		650g (transmitter and receiver)			
Apperance		PC Resin (Black)			
Dimension(mm)		195*80*77			

LHP-6Z-60

Multi-beam Window/Door Barrier

- Utilizing multi-infrared beam and dual beam identification method
- Distinguishing the size of intrusion, make instant alarm when there is intrusion
- High reliability with anti-cut function and anti-interference function
- Adjustable sensitivity according to the environment change or light intensity
- Waterproof construction
- High quality aluminum alloy cases with plastic sprayed
- The transmitter and receiver could make 180°（±90°）rotation after the installing base is fixed

Working temperature	-25℃~+55℃
Working voltage	DC9~16V
Transmitter current	≤100mA
Receiver current	≤60mA
Trigger alarm time	0.1s~1s
Alarm time	≥70ms
IP	IP55
Axis rotation angle	horizontally 180(±90°)
Distance	5m,10m,30m,40m,60m optional
Dimension(mm)	1137 x 41 x 45

Alarm Accessories

Products Technical Parameters

Outdoor PIR Detector

Easy Installation Detector

Model	LH-934IC	LH-931I	LH-922BC	LH-901B+
Detecting Range/angle	12m/110°	12m/110°	12m/90°	12m/90°
Working Voltage	DC9-16V	DC9-16V	DC9-16V	DC9-16V
Operation Current	≤30mA	≤28mA	<30mA	<20mA
Operation Temperature	-10℃ ~ +50℃	-10℃ ~ +50℃	-10℃ ~ +50℃	-10℃ ~ +50℃
Mounting Type	wall mounted	wall mounted	wall mounted	wall mounted
Installation Height	2.2m	2.2m	2.2m	2.2m
Looking-down	---	---	yes	---
Microwave Frequency	10.525G	---	10.525G	---
AND/OR Technology	---	---	yes	---
Pulse Count	1p or 2p optional	1p or 2p optional	1p or 2p optional	1p or 2p optional
Pet Immunity	---	---	---	25KG
Relay Output	N.C./N.O. option	N.C./N.O. option	N.C./N.O. optional	N.C./N.O. optional
Anti-tamper Switch	N.C.	N.C.	N.C.	N.C.
Dimension（mm）	129.8*62.7*51.4	150*73*48	120*60*40.6	107*52*36.5

Ceiling PIR Detector

Pet Immunity PIR Detector

Model	LH-913C(II)	LH-905A-2	LH-933B
Detecting Range/angle	8m/360°	ϕ6m/360°	12m/110°
Working Voltage	DC12-24V	DC9-16V	DC9-16V
Operation Current	≤35mA	≤20mA	≤25mA
Operation Temperature	-10℃ ~ +50℃	-10℃ ~ +50℃	-10℃ ~ +50℃
Mounting Type	ceiling mounted	ceiling mounted	wall mounted
Installation Height	2.5m-3.6m	2.5~3.6m	2.2m
Microwave Frequency	10.525G	---	Dual Sensors
AND/OR Technology	yes	---	1p or 2p optional
Pulse Count	1p or 2p optional	1p or 2p optional	35KG
Relay Output	N.C./N.O. optional	N.C.	N.C./N.O. optional
Anti-tamper Switch	N.C.	N.C.	N.C.
Dimension（mm）	ϕ135*38	ϕ116*28.2	120*64*48.5

Products Technical Parameters

Smoke Detector

Glass Break Detector

Model	SD-007D	SD-004(II)		LH-501
Operation Current	DC 9V	DC 12V	Operating Voltage	DC 9V~16V
Standby Current	≤30mA	≤8mA	Static Current	≤150mA
Operation Current	≤30mA	≤35mA	Alarm Current	≤25mA
Operating Temperature	-10℃~+50℃	-10℃~+50℃	Detection Range	High sensitivity: 9m
Mounting Type	Ceiling Mounted	Ceiling Mounted		low sensitivity: 5m
Alarm Density	Adjustable	Adjustable	Test Time	≤60s
Buzzer SPL	≥70dB/m		Operating Temperature	-10℃ ~ +80℃(14° F~176° F)
Operating Humidity	≤95% RH	≤95% RH	Dimension(mm)	92.0mm x 67.0mm x 26.4mm
Sound&flash Alarm	yes			
Network Alarm	no	yes		
Dimension(mm)	ϕ112 * 40mm	ϕ112 * 40mm		

Wired Gas Detector

Model	LH-88(Ⅱ)+	LH-86+
Working Voltage	DC10V-24V	DC10V-24V
Static Current	≤100mA	≤100mA
Operation Current	≤150mA	≤150mA
Operation Temperature	-10℃ ~ +50℃	-10℃ ~ +50℃
Mounting Type	Wall	Ceiling
Detection Gas	CH4(Natural Gas)	CH4(Natural Gas)
Buzzer SPL	≥70dB/m	≥70dB/m
Alarm Density	6%LEL	6%LEL
Environment Humidity	≤90%RH	≤90%RH
Alarm Density Tolerance	±3%LEL	±3%LEL
EMI, RFI Immunity	Yes	Yes
Sound&Flash Alarm	Yes	Yes
Network Alarm	Yes	Yes
Dimension (mm)	125*70*44	115*41

Products Technical Parameters

Emergency Button

	HO-01	HO-02
Material	ABS	ABS
Voltage(V DC)	≤250	≤250
Operating Current(mA)	≤300	≤300
Contact mode	N.O/N.C	N.O/N.C
Active Gap(mm)	53.6*36*27	76*14*14

Fire Alarm

	HF-911(II)
Type	Fire Alarm
Voltage(V DC)	≤300
Operating Current(mA)	≤250

Piezo Siren

Strobe Light and Electronic Siren

Model	HC-103		HC-626-320	HC-05
Rated Current(mA)	≤300	Type	Electronic siren	Strobe Light
Rated Voltage(V DC)	12	Rated Current(mA)	480-650	≤200
Operating Voltage Range(V DC)	9-15	Rated Voltage(V CD)	9-15	9-15
Flashes/Minute	200±30	Flashes/Minute	---	150
SPL	108±3(dB/30cm)	SPL	108±3(dB/m)	---

Products Technical Parameters

Magnetic Contacts

Embedded Series

Rolling Gate Series

Iron Gate Series

Surface Mounting Series	H0-03	H0-03C	H0-03I	H0-03F
Material	ABS	ABS	Metal Plating	Metal Plating
Voltage(V DC)	≤100	≤100	≤100	≤100
Operating Current(mA)	≤500	≤500	≤500	≤500
Contact mode	N.C.	N.C.	N.C.	N.C.
Active Gap(mm)	≥17	≥15	≥40	≥35