HORING LIH

FIRE ALARM
SYSTEMS

The Reliable, Capable and Professional manufacturer since 1984

NFPA INTERNATIONAL

LPCB

UKAS MANAGEMENT SYSTEMS
0007
Assessed to ISO 9001:2015
Cert/LPCB ref, 506

bsi. ISO 9001 Quality Management
FM 673470

UL®

CE

UK CA

HoringLih has designed high quality safety and protection products for a wide range of fire alarm systems including detectors, control panels, fire alarm accessories and many more. The addition of our state-of-the-art manufacturing facility enables us to maintain quality assurance as we continue to expand throughout the whole world. With our distributors serving over 50 countries, we have established a world-wide distribution network.

HoringLih has been in the Fire Alarm market for 40 years and we have built a fine reputation based on our customers' feedback. We continually bring new products into the market because HoringLih knows what customers need.

HoringLih has a long-term devotion to the fire alarm business with only one purpose –

We are concerned about people's life.

CONTENTS

QA16

Addressable Fire
Alarm Control Panel

Characteristics

• Each loop can connect up to 250 addressable devices. Maximum networking are 32 loops and total addressable points are 8000.

• Large LCD screen (40 x 15 lines) allows more events to be displayed on the same screen.

• Loop device can be set up to be temporarily isolated.

• Individual loop module test feature to save time on panel test.

• On-board Self-test feature for simulating alarm output.

• Easy system programming through PC to panel.

• Events log can store up to 2030 events.

• Specification Optional thermal printer that can printout complete panel status.

QA series can be in single or 32 loops network configurations. This system is designed for all applications with advantages of easy installation, fast and precise detection and simple maintenance. Friendly HL Fire Tool software saves your time from programming. Reliable QA series definitely meets your demands for safety.

Specifications

Model	QA16
Power	220V AC 50/60Hz *Others also available
Battery Capacity	24V DC 4Ah
Charging Voltage, Current	26V DC 100~1000mA *With auto adjustment function
Zone Voltage, Current	26.5V DC 340mA
System Capacity	250 devices/1 loop *Expandable for site requirement
Exterior Resistance	Round-trip under 40Ω
Transmitting Method	Digital series transmitting
Accumulation Time	0~40 seconds *Other options available
Main Sound	85dB @1M
Material	1.6mm steel plate
Color	Pearl gray
Dimensions (mm) H x W x D	1~4 loop: 400 x 500 x 130 5~8 loop: 600 x 500 x 150

CE

QA01/QA05/QA06

Addressable Detectors

QA01
Addressable Photoelectric
Smoke Detector

QA05
Addressable Combination
Smoke & Heat Detector

QA06
Addressable Heat Detector

Characteristics

• Address coding by dip switch makes the job easier.

• Latching function helps to identify alarm device clearly and quickly.

• Magnetic test feature makes maintenance easy and simple.

• Non-loosening screws on base terminal for easy installation.

• Detector is made of high endurance, solid and colorfast Fire-proof plastic.

• Detector has passed strict EMC test, which greatly eliminates false alarms caused by interference from nearby sources.

• Dual LEDs for 360-degree visibility.

Specifications

Model	QA01	QA05	QA06
Address Coding	Binary		
Alarm Current	DC26V 6mA		
Standby Current	DC26V 850μA		
Sensitivity Setting	Comply to EN54		
Ambient Temperature	0°C ~ +50°C		
Material	Fire-proof plastic		
Color	White		
Thermal Setting	N/A	58°C	58°C
Dimensions(mm)	102(Dia.) x 48(H)	102(Dia.) x 54(H)	102(Dia.) x 46(H)
Weight	130g	130g	115g

CE

Module Series

Addressable Fire Alarm Systems

QA17-A   QA17-B   QA17-H   QA17-K
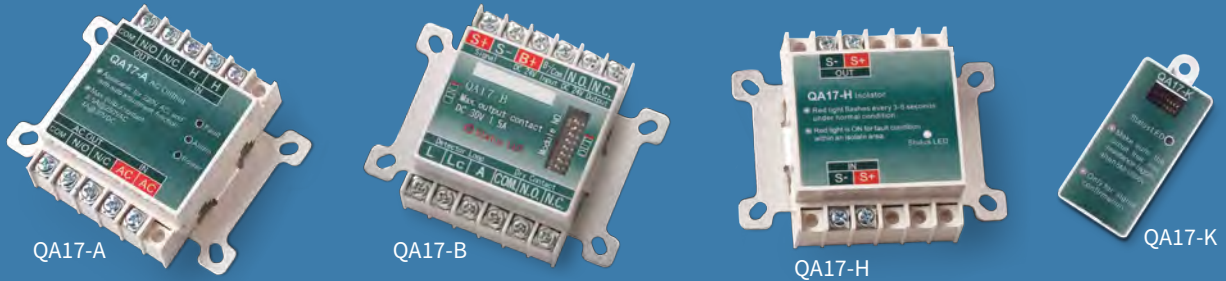
Characteristics

- Low power consumption in monitoring mode, high stability.

- Easy installation, either single module installation or several modules installed on a special mounting bar. Implanted type gang box is available to suit the decoration design.

- The Module is designed with separate input and output contacts to decrease the difficulty of moving external wiring.

- Control Module QA17-B is designed to control input & output for all kinds of systems. (fire alarm, smoke evacuation, sprinkler, foam , winding door...etc.)

- Output module QA17-A can directly connect with power source. The output voltage from N.O. & N.C. will be the same as input voltage.

- Monitor module QA17-K is designed to monitor security condition, such as water supply, pump action ...etc.

Specifications

Model	QA17-A	QA17-B	QA17-H	QA17-K
Type	Output Module	Control Module	Isolator Module	Monitor Module
Purpose	Supply higher current such as evacuation	Input & Output for all systems	Isolate from control unit when external fault	Confirmation of external signal
System Connected	Series with QA17-B	Series with conventional detector	Series with all system zone	Receive activation signal from external device
Input Source	24VDC / 110VAC / 220VAC	Loop signal	Zone short circuit	Activation signal
Output Contacts/Load	COM. N.O. N.C. 4A @30VDC, 2.5A @ 250VAC	1 in 2 out COM. N.O. N.C. 1.5A @30V DC	N/A	N/A
EOL Resistor	N/A	10kΩ	N/A	10kΩ
Address Coding	N/A	Binary	N/A	Binary
Dimensions (mm) H x W x D	60 x 76 x 31			55 x 27 x 16
Ambient Temp.	0°C ~ +50°C			
Material	Fire-proof plastic			
Color	Green			

QA Series Addressable Fire Alarm System Configuration

QA16 Addressable Fire Alarm Control Panel

Conventional Manual Call Point
Fire Alarm Bell
Conventional Detector
Remote Indicating Lamp
Conventional Detector
QA17-A

QA17-H   QA17-B   QA17-B   QA17-B   QA17-K

RS-485

QA17-H

QA0817 Addressable Manual Call Point

QA01 Addressable Photoelectric Smoke Detector

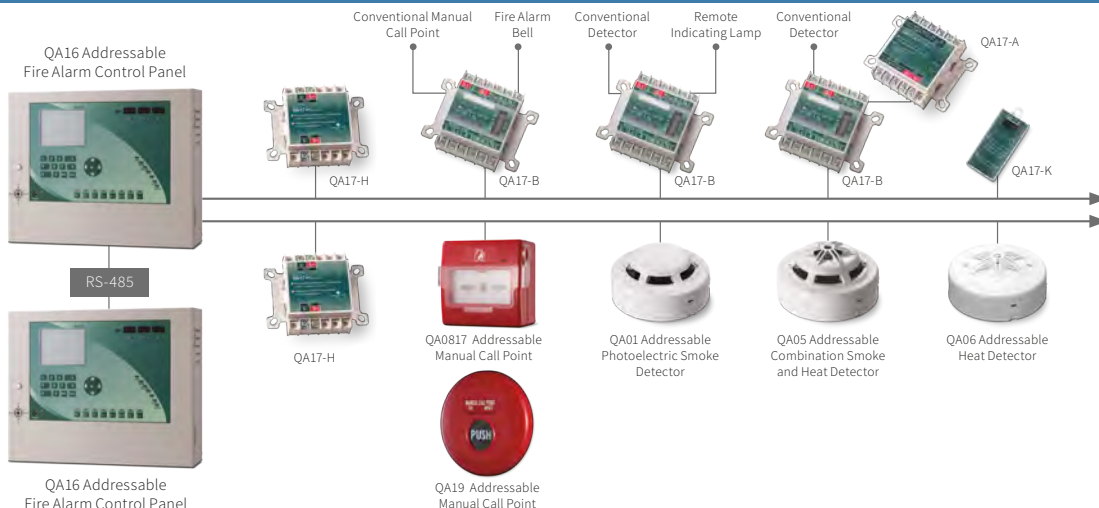QA05 Addressable Combination Smoke and Heat Detector

QA06 Addressable Heat Detector

QA16 Addressable Fire Alarm Control Panel

QA19 Addressable Manual Call Point

CE

Accessories

Addressable
Fire Alarm

QA19

TBR9-S

TBR9-BSR
TBR9-BSW

QA0817

Specifications

Model	QA19	QA0817	TBR9-S	TBR9-BSR	TBR9-BSW
Commodity	Resettable Manual Call Point		Electronic Sounder	Electronic Sounder and Beacon (Red LED)	Electronic Sounder and Beacon (White LED)
Alarm Current	6mA		Under 8mA		
Type/Purpose	Addressable type binary coding / Signal will directly sent to panel				
Input Source	Zone signal				
Operating Voltage	26V DC				
Standby Current	850µA				
Material	Fire-proof plastic				
Color	Red				
Sound Output	N/A		90 ±4 dB(A) at 1 meter 24V DC		
Sounder Output	N/A		2.3~3.4KHz, 1.8Hz (ON 0.05S/OFF 0.5S)		
LED Flash Rate	N/A		N/A	1.3Hz (ON 0.003S/OFF0.7S)	
Ambient Temperature	0°C ~ +50°C		-20°C ~ +50°C		
Ingress Protection	N/A	IP33	IP65		
Dimensions(mm)	140(Dia.) x 45(H)	87.5(H) x 87.5(W) x 54(D)	92(Dia) x 103(H)	92(Dia) x 119.4(H)	

CE

New Series Detectors
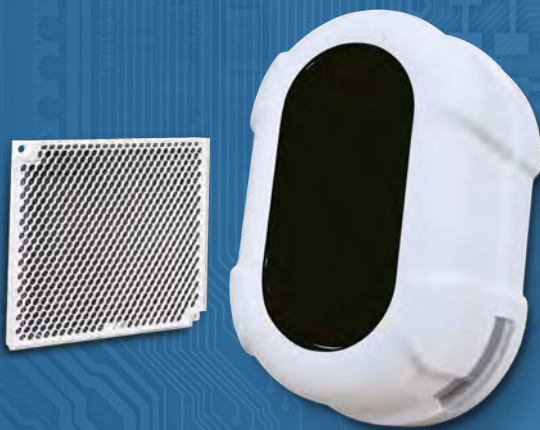
EDB01
Reflective Beam Smoke
Detector

Q01
Photoelectric Smoke
Detector

Q05
Combination Smoke and
Heat Detector

Q06
Heat Detector

EDB01

Reflective Beam Smoke Detector
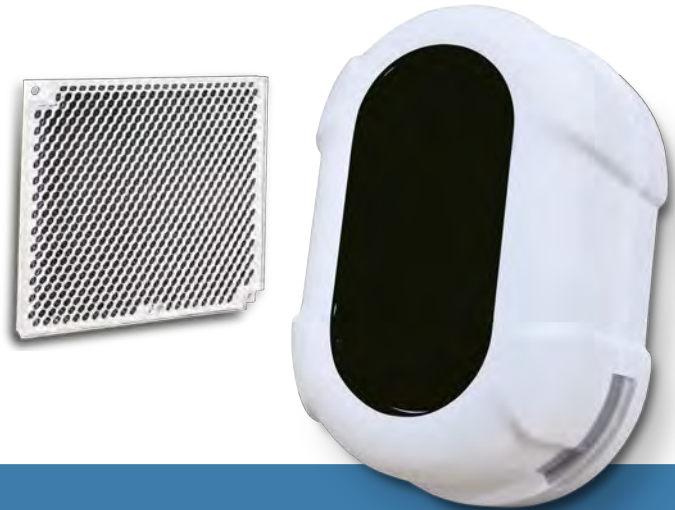
Operating Principle

The reflective beam smoke detector is a single unit comprising a transmitter and a receiver. The transmitter projects a cone shaped beam of modulated infra-red light to prisms. An alarm condition will be determined when the signal is analyzed to reach up to the settings of retention of smoke. In addition, the system is designed to be wall-mounted so that the beam will project approximately 0.3m to 0.6m below and parallel to the ceiling and the maximum lateral range is 7.5m either side of the beam. The distance between detector and the prism should be within 100m.

Features

- The detection level can be set to 18%, 25%, 35%, and 50% to suit different environments.
- Lower current consumption.
- Easy installation & Low potential voltage
- Self-alignment & Automatic contamination compensation.
- Laser-aid alignment.
- Smartphone / Tablet applications display enabled (with blue-tooth module options).
- Application Locations: Warehouses, Factory halls, Departments Stores, Activity Centers, Churches, Museums, Electric Power Stations and Industrial Sites.
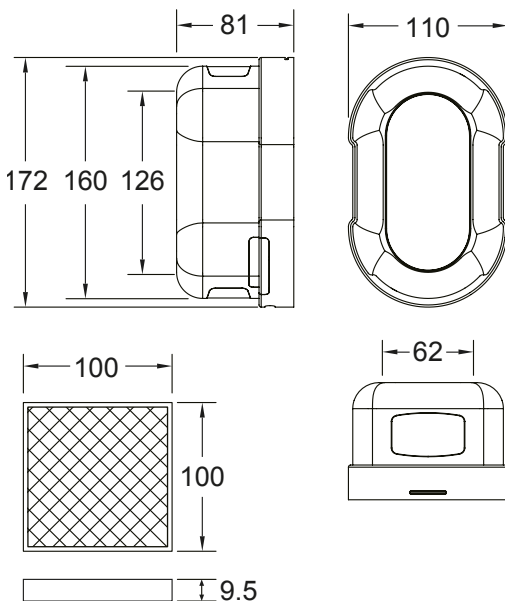
Specifications

Model	EDB01
Operating Voltage	12-30V DC
Standby Current	3~20mA
Alarm Current	20~40mA
Alarm Output	COM/NO (1A @30V DC)
Fault Output	COM/NC (1A @30V DC)
Sensitivity	18%(0.79-0.96dB), 25%(1.25dB), 35%(1.87dB), 50%(2.43-3.16dB)
Operating Range	10m to 50m use one prism 50m to 100m use four prisms
Angular Tolerance	Detector: ±0.5° / Prism: ±5.0°
Ambient Temperature	-10°C ~ +55°C
Material	ABS Plastic
Color	White
Weight	350g (Detector)

EN54   LPCB 506h/01   CE 0832

81
110
172 160 126
100
100
62
9.5

10M~100M
Prism
Detector
1.2mm x 4 (B+.B-, L.Lc)
FACP

Q01

Photoelectric Smoke Detector

Characteristics

- The standard detector is 2-wire or 3-wire. For 4-wire type just add one relay output module on 3-wire base. Simple and easy module placement enables wider application and flexible stock control.

- Detector is made of high endurance, solid and colorfast Fire-proof plastic.

- Non-loosening screws on base terminal for easy installation.

- Detector has passed strict EMC test, which greatly eliminates false alarms caused by interference from nearby sources.

- Dual LEDs for 360-degree visibility. Bi-color LED, Stand-by Status: Green; Alarm Status: Red.

Specifications

Model	Q01-2	Q01-3	Q01-4
Alarm Contact	N/A	N/A	0.8A @30V DC 0.4A @125V AC
Voltage Range	12 ~ 30V DC		
Alarm Current @24V DC 470Ω	40mA	40mA	45mA
Standby Current @24V DC 470Ω	under 75µA		
Sensitivity Setting	Comply to EN54		
Ambient Temperature	-10°C ~ +55°C		
Material	Fire-proof plastic		
Dimensions	102mm(Dia.) x 48mm(H)		
Weight	130g	130g	145g
Color	White		

Effective alert area

Building Height	Area Covered
Under 4M	150 M^2
4 ~ 20M	75 M^2

Order information

Q01-2	2-wire
Q01-3	3-wire with remote indicator output
Q01-4	4-wire with relay output

48 mm

102 mm
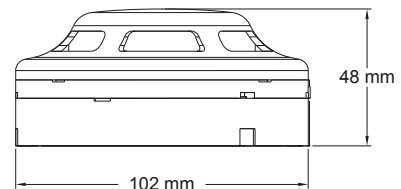
EN54 LPCB CE
506a/05/06/07   0832

Q05

Combination Smoke and Heat Detector

Characteristics

• The standard detector is 2-wire or 3-wire. For 4-wire type just add one relay output module on 3-wire base. Simple and easy module placement enables wider application and flexible stock control.

• Detector is made of high endurance, solid and colorfast Fire-proof plastic.

• Non-loosening screws on base terminal for easy installation.

• Detector has passed strict EMC test, which greatly eliminates false alarms caused by interference from nearby sources.

• Dual LEDs for 360-degree visibility. Bi-color LED, Stand-by Status: Green; Alarm Status: Red.
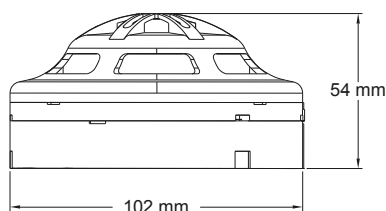
Specifications

Model	Q05-2	Q05-3	Q05-4
Alarm Contact	N/A	N/A	0.8A @30V DC 0.4A @125V AC
Voltage Range	12 ~ 30V DC		
Alarm Current @24V DC 470Ω	40mA	40mA	45mA
Standby Current @24V DC 470Ω	under 85µA		
Sensitivity Setting	Comply to EN54		
Thermal Setting	58°C		
Ambient Temperature	-10°C ~ +55°C		
Material	Fire-proof plastic		
Dimensions	102mm(Dia.) x 54mm(H)		
Weight	130g	130g	145g
Color	White		

Effective alert area

Building Height	Area Covered
Under 4M	150 M^2
4 ~ 20M	75 M^2

Order information

| Q05-2	2-wire
Q05-3	3-wire with remote indicator output
Q05-4	4-wire with relay output

EN54

LPCB

CE

506b/04/05/06   0832

Q06

Heat Detector

Characteristics

- The standard detector is 2-wire or 3-wire. For 4-wire type just add one relay output module on 3-wire base. Simple and easy module placement enables wider application and flexible stock control.
- Detector is made of high endurance, solid and colorfast Fire-proof plastic.
- Non-loosening screws on base terminal for easy installation.
- Detector has passed strict EMC test, which greatly eliminates false alarms caused by interference from nearby sources.
- Dual LEDs for 360-degree visibility. Bi-color LED, Stand-by Status: Green; Alarm Status: Red.

Specifications

Model	Q06-2	Q06-3	Q06-4
Alarm Contact	N/A	N/A	0.8A @30V DC 0.4A @125V AC
Voltage Range	12 ~ 30V DC		
Alarm Current @24V DC 470Ω	40mA	40mA	45mA
Standby Current @24V DC 470Ω	under 95µA		
Thermal Setting	58°C		
Ambient Temperature	-10°C ~ +55°C		
Material	Fire-proof plastic		
Dimensions	102mm(Dia.) x 46mm(H)		
Weight	115g	115g	130g
Color	White		

Effective alert area

Construction/Height	Under 4M	4M ~ 8M
Fire-proof Building	90 M^2	45 M^2
Ordinary Building	50 M^2	30 M^2

Order information

Q06-2	2-wire
Q06-3	3-wire with remote indicator output
Q06-4	4-wire with relay output

46 mm

102 mm

EN54

LPCB
506c/04/05/06

CE
0832

8011

Photoelectric Smoke Detector

Characteristics

• The standard detector is 2-wire or 3-wire. For 4-wire type just add one relay output module on 3-wire base. Simple and easy module placement enables wider application and flexible stock control.

• Detector is made of high endurance, solid and colorfast Fire-proof plastic.

• Non-loosening screws on base terminal for easy installation.

• Detector has passed strict EMC test, which greatly eliminates false alarms caused by interference from nearby sources.

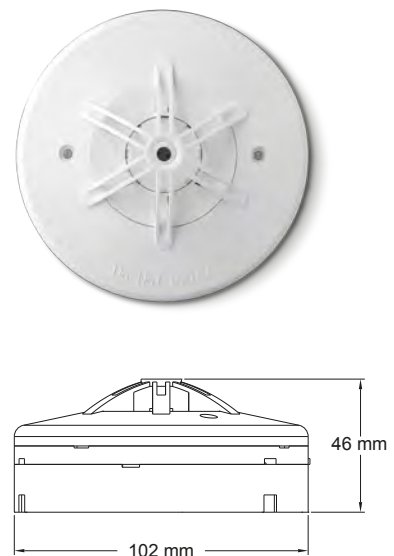• Dual LEDs for 360-degree visibility. Bi-color LED, Stand-by Status: Green; Alarm Status: Red.

47 mm

102 mm

CE
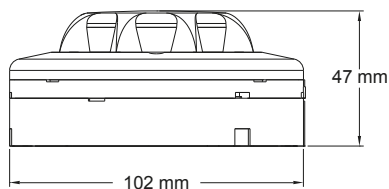
Specifications

Model	8011-2	8011-3	8011-4
Alarm Contact	N/A	N/A	0.8A @30V DC 0.4A @125V AC
Voltage Range	12 ~ 30V DC		
Alarm Current @24V DC 470Ω	40mA	40mA	45mA
Standby Current @24V DC 470Ω	25 ~ 75μA		
Sensitivity Setting	Comply to EN54		
Ambient Temperature	-10°C ~ +55°C		
Material	Fire-proof plastic		
Dimensions	102mm(Dia.) x 47mm(H)		
Weight	130g	130g	145g
Color	White		

Effective alert area

Building Height	Area Covered
Under 4M	150 M^2
4 ~ 20M	75 M^2

Order information

8011-2	2-wire
8011-3	3-wire with remote indicator output
8011-4	4-wire with relay output
8011-2M	2-wire + magnetic test feature
8011-3M	3-wire with remote indicator output + magnetic test feature
8011-4M	4-wire with relay output + magnetic test feature

AH-0715

Combination Smoke and Heat Detector

Characteristics

- Magnetic test feature makes maintenance easy and simple.
- Twin-color LED display enables viewer to easily identify the current status of detector.
- The standard detector is 2-wire or 3-wire. For 4-wire type just add one relay output module on 3-wire base. Simple and easy module placement enables wider application and flexible stock control.
- Detector is made of high endurance, solid and colorfast Fire-proof plastic.
- Non-loosening screws on base terminal for easy installation.
- Detector has passed strict EMC test, which greatly eliminates false alarms caused by interference from nearby sources.

Specifications

Model	AH-0715-2	AH-0715-3	AH-0715-4
Alarm Contact	N/A	N/A	0.8A @30V DC 0.4A @125V AC
Voltage Range	12 ~ 30V DC		
Alarm Current @24V DC 470Ω	40mA	40mA	45mA
Standby Current @24V DC 470Ω	35 ~ 85µA		
Sensitivity Setting	Comply to EN54		
Thermal Setting	58°C		
Ambient Temperature	-10°C ~ +55°C		
Material	Fire-proof plastic		
Dimensions	102mm(Dia.) x 54mm(H)		
Weight	130g	130g	145g
Color	White		

Effective alert area

Building Height	Area Covered
Under 4M	150 M^2
4 ~ 20M	75 M^2

Order information

AH-0715-2	2-wire
AH-0715-3	3-wire with remote indicator output
AH-0715-4	4-wire with relay output
AH-0715-2M	2-wire + magnetic test feature
AH-0715-3M	3-wire with remote indicator output + magnetic test feature
AH-0715-4M	4-wire with relay output + magnetic test feature

54 mm

102 mm

CE
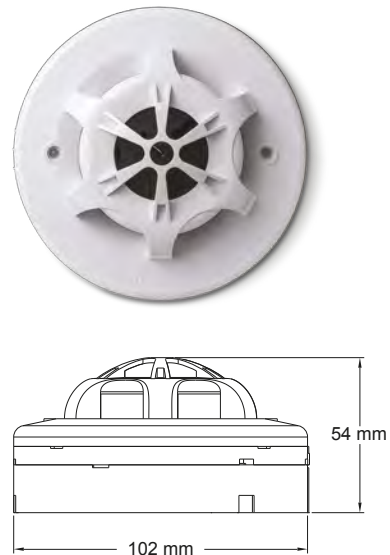
8016

Heat Detector

Characteristics

- Magnetic test feature makes maintenance easy and simple.
- The standard detector is 2-wire or 3-wire. For 4-wire type just add one relay output module on 3-wire base. Simple and easy module placement enables wider application and flexible stock control.
- Detector is made of high endurance, solid and colorfast Fire-proof plastic.
- Non-loosening screws on base terminal for easy installation.
- Detector has passed strict EMC test, which greatly eliminates false alarms caused by interference from nearby sources.
- Dual LEDs for 360-degree visibility.

45 mm

102 mm

CE
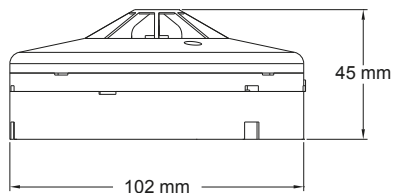
Specifications

Model	8016-2	8016-3	8016-4
Alarm Contact	N/A	N/A	0.8A @30V DC 0.4A @125V AC
Voltage Range	12 ~ 30V DC		
Alarm Current @24V DC 470Ω	40mA	40mA	45mA
Standby Current @24V DC 470Ω	20 ~ 90µA		
Thermal Setting	58°C		
Ambient Temperature	-10°C ~ +55°C		
Material	Fire-proof plastic		
Dimensions	102mm(Dia.) x 45mm(H)		
Weight	115g	115g	130g
Color	White		

Effective alert area

Construction/Height	Under 4M	4 ~ 8M
Fire-proof Building	90 M^2	45 M^2
Ordinary Building	50 M^2	30 M^2

Order information

|	
8016-2	2-wire
8016-3	3-wire with remote indicator output
8016-4	4-wire with relay output
8016-2M	2-wire + magnetic test feature
8016-3M	3-wire with remote indicator output + magnetic test feature
8016-4M	4-wire with relay output + magnetic test feature

AH-0933

Mechanical Rate of Rise Heat Detector

Characteristics

• Detector is made of high endurance, solid and colorfast Fire-proof plastic.

• Non-loosening screws on base terminal for easy installation.

• The unit is completely sealed; its function is not affected by humidity, dust or insects.

• This detector has passed strict quality control and repetitive testing, hence its quality is stable and highly reliable.

Specifications

Model	AH-0933
Type	2-wire
Voltage Range	12 ~ 30V DC
Alarm Current @24V DC 470Ω	40mA
Alarm Temperature	Comply to EN54
Ambient Temperature	0°C ~ +55°C
Material	Fire-proof plastic
Dimensions	102mm(Dia.) x 46mm(H)
Weight	About 130g
Color	White

Effective alert area

Construction/Height	Under 4M	4M ~ 8M
Fire-proof Building	90 M^2	45 M^2
Ordinary Building	50 M^2	30 M^2

46mm

102mm

CE
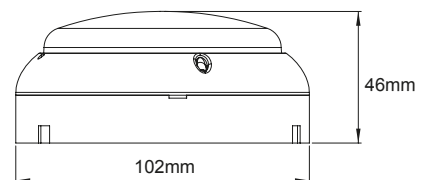
IR-0714/IR-0814

IR Flame Detector

IR-0814

IR-0714

Characteristics

• Built-in high performance Microprocessor that able to analysis flame signal more accuracy.

• IR sensor has better detection range than UV sensor.

• High immunity to sunlight or other noisy source.

Applications

• Premises with higher ceilings: theater, gym, storage, gallery or warehouse, etc.

• Places where fires happen easily: places storing with combustible goods, gas stations, factory working places, machine rooms, etc.

• Ventilate places: open markets, station platforms, hotel lobbies, department stores, etc. (places that smoke and heat can not gather during early period of fire)

• Others: tunnels, computer rooms, etc.

Specifications:

Model	IR-0714-2	IR-0714-3	IR-0714-4	IR-0814-2	IR-0814-3	IR-0814-4
Type	2-wire	3-wire	4-wire	2-wire	3-wire	4-wire
Alarm Contact	N/A	N/A	0.8A @ 30V DC 0.4A @125V AC	N/A	N/A	0.8A @ 30V DC 0.4A @125V AC
Sensor Type	Single IR			Dual IR		
Wavelength	4.35µm			4.35µm 3.40µm		
Standby Current @24V DC 470Ω	under 200µA			under 250µA		
Voltage Range	12V~30V DC					
Alarm Current @24V DC 470Ω	35mA					
Ambient Temperature	-10°C+55°C					
Material	Fire-proof plastic					
Dimensions	102 mm (Dia.) × 38 mm (H)					
Weight	130g	130g	145g	130g	130g	145g
Color	White					

Installation Instructions

1. Do not install detector that has fire source nearby.

2. Detection range and angle please refer to diagram as below.

EN54   LPCB   CE
506g/01/02   0832

Detection range and angle:

25m 17m 12m   1.25m   1.25m   12m 17m 25m

Level 4 (1.25m)
Level 3 (12m)
Level 2 (17m)
Level 1 (25m)

-45   -40   -30   -20   -10   0   10   20   30   40   45

Level 1 : 25m = ±15°
Level 2: 17m = ±35°
Level 3: 12m = ± 45°
Level 4: 1.25m = ±45°

AHMB-071

Mounting Base

AHMB-071

Implanted-Type

Design Characteristics

- The standard detector is 2-wire or 3-wire. For 4-wire type just add one relay output module on 3-wire base. Simple and easy module placement enables wider application and flexible stock control.
- Major advantage of using the compatible mounting base is to avoid wasting time selecting proper detectors for various purposes and be able to install the base quickly and continuously. Afterwards, just plug-in proper detector head to complete the project.
- Applies to model nos. Q01, Q05, Q06, AH-0621, 8011, AH-0715, 8016 and AH-0933.

Order information

Model	Feature, Application
AHMB-071-2	2-wire Apply to fire alarm control panel
AHMB-071-3	3-wire Auxiliary for remote indicating lamp
AHMB-071-4	4-wire 12 ~ 24VDC, optional one set of relay output. Apply to security system…etc.
06MB	Implanted-Type Applies to 2-wire, 3-wire, 4-wire.

2-Wire Type (Regular)

Lc(Z-)

Lc S   Lc S   Lc S

Connect to Control Panel

End of Line Resistor

L   L   L

Lc(Z+)

3-Wire Type (Signal Transfer)

S

Lc(Z-)

Lc S   Lc S   Lc S

Connect to Control Panel

End of Line Resistor

L   L   L

Lc(Z+)

4-Wire Type (Relay Output) Contact Ratings 0.8A @30V DC 0.4A@125V AC

Lc(Z-)

Lc S   Lc S   Lc S
N.C.   N.C.   N.C.
COM   COM   COM
N.O.   N.O.   N.O.

Connect to Control Panel

End of Line Resistor

L   L   L

Lc(Z+)

Fire Alarm Control Panel   Detector   DC 24V   470Ω 1W   Detector

L ------------------- L   + ----/\/\/--- L
LC ------------------ LC   - ------------ LC

A : 89 mm
B : 50 mm
C : 4.5 mm

AH-0621

Photoelectric Smoke Detector

Characteristics

• Contacts material is highly acid-resistant and rust-resistant.

• Twin-color LED display enables viewer to easily identify the current status of detector.

• Detector is made of high endurance, solid and colorfast Fire-proof plastic.

• Non-loosening screws on base terminal for easy installation.

• Detector has passed strict EMC test, which greatly eliminates false alarms caused by interference from nearby sources.
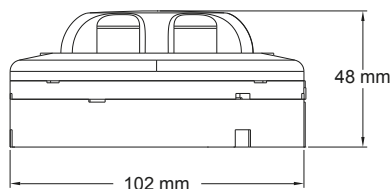
48 mm

102 mm

Specifications

Model	AH-0621-2
Voltage Range	12 ~ 30V DC
Alarm Current @24V DC 470Ω	50mA
Standby Current @24V DC 470Ω	140μA
Sensitivity Setting	Comply to UL 268
Ambient Temperature	0°C ~ +37.8°C
Material	Fire-proof plastic
Dimensions	102mm(Dia.) x 48mm(H)
Weight	130g
Color	White

Effective alert area

Building Height	Area Covered
Under 4M	150 M^2
4 ~ 20M	75 M^2

Order information

AH-0621-2	2-wire

AH-0625

Combination Smoke and Heat Detector

Characteristics

- Each visible warning has 3 modes to easily identify current status.
- Microprocessor control makes smoke and heat detection more accuracy.
- Detector is made of high endurance, solid and colorfast Fire-proof plastic.
- Non-loosening screws on base terminal for easy installation.
- Detector has passed strict EMC test, which greatly eliminates false alarms caused by interference from nearby sources.
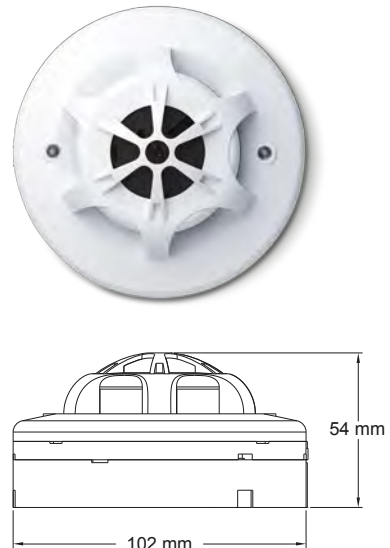- Dual LEDs for 360-degree visibility.

Specifications

Mode	AH-0625-2
Voltage Range	12 ~ 30V DC
Alarm Current @24V DC 470Ω	40mA
Standby Current @24V DC 470Ω	30 ~ 80μA
Sensitivity Setting	Comply to UL 268
Thermal Setting	57℃
Indicator	Standby: flash every 4 seconds Pre-alarm: flash every 2 seconds Abnormal: flash once every second
Ambient Temperature	0℃ ~ +37.8℃
Material	Fire-proof plastic
Dimensions	102mm(Dia.) x 54mm(H)
Weight	130g
Color	White

Effective alert area

Building Height	Area Covered
Under 4M	150 M^2
4 ~ 20M	75 M^2

Order information

| AH-0625-2	2-wire

54 mm

102 mm

AH-0626

Heat Detector

Characteristics

- Microprocessor control makes heat detection more accuracy.

- Detector is made of high endurance, solid and colorfast Fire-proof plastic.

- Non-loosening screws on base terminal for easy installation.

- Features an accumulated water discharger to eliminate leakage of water from the water pipes or ceiling which may leak into the detector and cause a false alarm.

- Dual LEDs for 360-degree visibility.
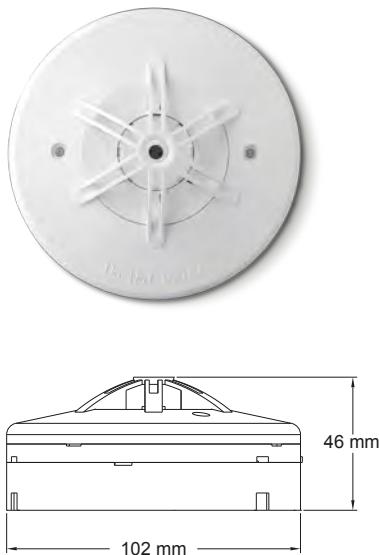
Specifications

Model	AH-0626-2
Voltage Range	12 ~ 30V DC
Alarm Current @24V DC 470Ω	40mA
Standby Current @24V DC 470Ω	70μA
Thermal Setting	60°C
Ambient Temperature	0°C ~ +37.8°C
Material	Fire-proof plastic
Dimensions	102mm(Dia.) x 46mm(H)
Weight	120g
Color	White

Effective alert area

Construction/Height	Under 4M	4M ~ 8M
Fire-proof Building	90 M^2	45 M^2
Ordinary Building	50 M^2	30 M^2

Order information

AH-0626-2	2-wire

AH-9315

## Combination Smoke and Heat Detector

Characteristics

- Multi-purpose Design: when there is smoke or heat during pre-fire period, field situation will vary due to different environments. This combination design is to ensure that the pre-fire confirmation will not be affected by varying environments.

- Smoke gate has a special design to obscure the strong light effectively and allow smoke to come in easily. Water vapor will not gather on the insect guard screen to cause a false alarm.

- Features an accumulated water discharger to eliminate leakage of water from the water pipes or ceiling which may leak into the detector and cause a false alarm.

- This detector has passed strict quality control and repetitive testing, hence its quality is stable and highly reliable.

Specifications

Model	AH-9315		
Type	2-wire	3-wire	4-wire
Alarm Contact	N/A	N/A	0.8A @30V DC 0.4A @125V AC
Voltage Range	12 ~ 30V DC		
Alarm Current @24V DC 470Ω	40mA	40mA	35mA
Standby Current @24V DC 470Ω	20 ~ 85μA (Loop response under 75μA)		
Sensitivity Setting	Comply to EN54		
Thermal Setting	55℃		
Ambient Temperature	-10℃ ~ +55℃		
Material	Fire-proof plastic		
Dimensions	111mm(Dia.) x 50mm(H)		
Weight	About 170g		
Color	White		

Effective alert area

Building Height	Area Covered
Under 4M	150 M^2
4 ~ 20M	75 M^2

50 mm

111 mm

CE
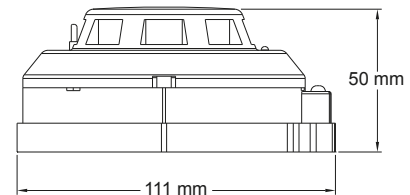
AHR-871

Mechanical Rate of Rise Heat Detector

Characteristics

- Heat-sensing diaphragm can operate for unlimited number of times and is not affected by room temperature. The conducting parts use gold coating to avoid oxidation.

- Uses alloy air equalizer to avoid humidity and stabilize the ventilation function. Alloy itself has many micro-holes that can expel non-fire heat to avoid false alarms.

- The unit is completely sealed; its function is not affected by humidity, dust or insects.

- This detector has passed strict quality control through automatic repetitive testing and been calibrated automatically under stable temperature and humidity conditions. Thus, quality and reliability are consistent from the first detector produced to millionth.

Specifications

Model	AHR-871		
Type	2-wire	3-wire	4-wire
Alarm Contact	N/A	N/A	0.8A @30V DC 0.4A @125V AC
Voltage Range	12 ~ 30V DC		
Alarm Current @24V DC 470Ω	40mA	40mA	35mA
Alarm Temperature	Comply to EN54		
Ambient Temperature	0°C ~ +55°C		
Material	Fire-proof plastic		
Dimensions	111mm(Dia.) x 45mm(H)		
Weight	About 130g		
Color	White		

Effective alert area

Construction/Height	Under 4M	4M ~ 8M
Fire-proof Building	90 M^2	45 M^2
Ordinary Building	50 M^2	30 M^2

45 mm

111 mm

CE

AH-9920

Mechanical Fixed Temperature Heat Detector

Characteristics

- This detector operates on the temperature differential sensing principle, with a UL approved sensor making mechanical contact. It is made of high quality material, providing excellent contact despite any environmental interference.
- This detector is suitable for locations with high temperatures differentials, such as places (kitchen, restaurant and boiler house) where there is constant use of heat.
- This detector has passed strict quality control and repetitive testing; hence its quality is durable and highly reliable.
- Through its professional design, the heat collector can accelerate its response rate after being heated, and has a protective device to avoid accidental response caused by distortion, bumping and dropping in order to increase the reliable product.
- The unit is completely sealed; its function is not affected by humidity, dust or insects.

Specifications

Model	AH-9920		
Type	2-wire	3-wire	4-wire
Alarm Contact	N/A	N/A	0.8A @30V DC 0.4A @125V AC
Thermal Setting	70°C or other selections		
Voltage Range	12 ~ 30V DC		
Alarm Current @24V DC 470Ω	40mA	40mA	35mA
Alarm Temperature	Comply to EN54		
Ambient Temperature	-10°C ~ +55°C		
Material	Fire-proof plastic		
Dimensions	111mm(Dia.) x 47mm(H)		
Weight	About 100g		
Color	White		

Effective alert area

Construction/Height	Under 4M	4M ~ 8M
Fire-proof Building	60 M^2	30 M^2
Ordinary Building	30 M^2	15 M^2

47 mm

111 mm

CE
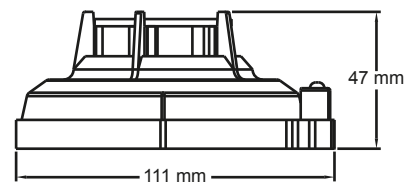
AH-0014

Flame Detector

Description

The detector has wide-angle sensitivity that can reliably and quickly detect weak ultraviolet radiations emitted by flame.

It will not react to room illuminations, infrared or other light sources unrelated to real fire.

Applications

• Premises with higher ceilings: theater, gym, storage, gallery or warehouse, etc.

• Places where fires happen easily: places storing with combustible goods, gas stations, factory working places, machine rooms, etc.

• Ventilate places: open markets, station platforms, hotel lobbies, department stores, etc. (places that smoke and heat can not gather during early period of fire)

• Others: tunnels, computer rooms, etc.

Installation Instructions

1. Install at obstruction-free places.

2. Avoid installing near mercury lamps, halogen lamps and sterilization lamps.

3. Avoid installing within sensitive range of welding sparks and radiation.

47 mm

111 mm

CE

Specifications

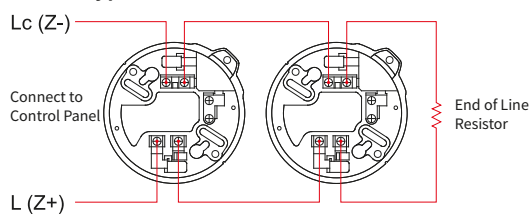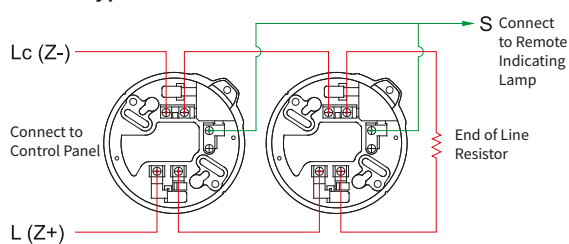| Model	AH-0014		
Type	2-wire	3-wire	4-wire
Alarm Contact	N/A	N/A	0.8A @30V DC 0.4A @125V AC
Voltage Range	12 ~ 30V DC		
Alarm Current @24V DC 470Ω	40mA	40mA	35mA
Standby Current @24V DC 470Ω	under 100μA		
Sensor Type	Ultraviolet		
Sensitivity Angle	120°		
Sensitivity Range	It can detect flame of 15mm at distance of 3m		
Ambient Temperature	-10°C ~ +55°C		
Material	Fire-proof plastic		
Dimensions	111mm(Dia.) x 47mm(H)		
Weight	About 170g		
Color	White		

Regular 4"

Mounting Base

Design Characteristics

• Major advantage of using the compatible mounting base is to avoid wasting time selecting proper detectors for various purposes and be able to install the base quickly and continuously. Afterwards, just plug-in proper detector head to complete the project.

• Applies to model nos. AH-9315, AHR-871, AH-9920, and AH-0014.
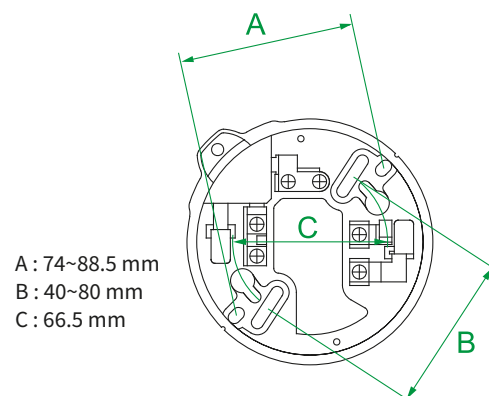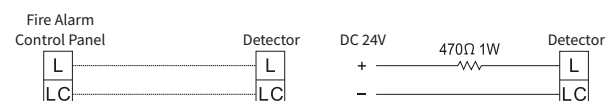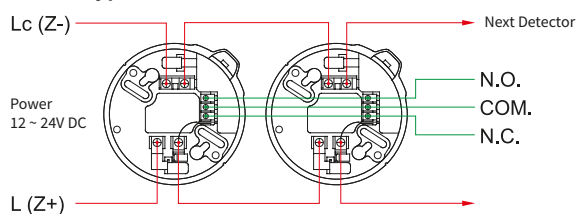
2-Wire Type (Regular)

Lc (Z-)

Connect to Control Panel

End of Line Resistor

L (Z+)

3-Wire Type (Signal Transfer)

Lc (Z-)

S Connect to Remote Indicating Lamp

Connect to Control Panel

End of Line Resistor

L (Z+)

4-Wire Type (Relay Output) Contact Ratings 0.8A @30V DC 0.4A @125V AC

Lc (Z-)

Next Detector

Power 12 ~ 24V DC

N.O.
COM.
N.C.

L (Z+)

Fire Alarm Control Panel

Detector

DC 24V

470Ω 1W

Detector

L — L

LC — LC

+ —

−

L

LC

A : 74~88.5 mm
B : 40~80 mm
C : 66.5 mm

Order information

| Regular 4"		
Model	AHMB-L	AHMB-L3	AHMB-L4
Type	2-wire	3-wire	4-wire

CE

NQ12

Resettable Type Smoke Detector

Characteristics

- Used widely in fire alarm systems or security systems.
- High accuracy IR diode sensor to detect the ambient smoke level more effectively.
- Several power regulators on PCB to stabilize the operation of detectors.
- New design on minified chamber makes so easy for maintenance.
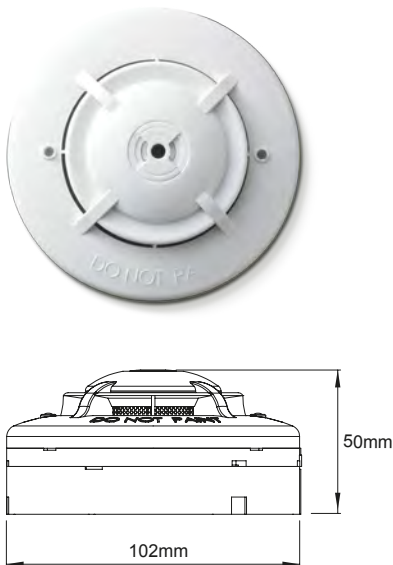
Specifications

Model	NQ12S	NQ12BS	NQ12BPS
Voltage Range	12V DC		
Standby Current	20uA (pulsing current under 450 uA)		15mA
Alarm Current @12V DC	15mA	20mA	30mA
Sensitivity Setting	Comply to UL 268		
Sound	85dB/3M		
Ambient Temperature	-10°C ~ +55°C		
Material	Fire-proof plastic		
Dimensions	102mm(Dia.) x 50mm(H)		
Color	White		
Weight	135g	140g	155g

Order information

NQ12S	+ Relay Output
NQ12BS	+ Buzzer + Relay Output
NQ12BPS	+ Buzzer + Power off & Wire Disconnection Warning + Relay Output

50mm

102mm

CE

Wiring Diagram

NQ12S / NQ12BS
Relay output :
Contact Ratings
0.8A@30VDC
0.4A@125VAC
(Refer to Security
System Application)

V-
(0V)

Lc   S   Lc   S

N.C.   10   N.C.   10
COM   9   COM   9
N.O.   8   N.O.   8

L   L   L   L

V+
(+12V)

S
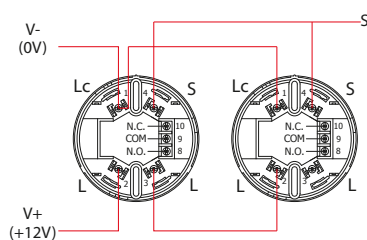
NQ12BPS
Alarm output :
Normal Status : 8 & 9 open circuit
                 9 & 10 short circuit
Alarm Status :   8 & 9 short circuit
                 9 & 10 open circuit

Disconnection or Power-off Warning :
Normal Status : 5 & 6 open circuit
                 6 & 7 short circuit
Fault Status :   5 & 6 short circuit
                 6 & 7 open circuit

V-
(0V)

Lc   S   Lc   S

5 N.C. 10   5 N.C. 10
6 COM   9   6 COM   9
7 N.O. 8   7 N.O. 8

L   L   L   L

V+
(+12V)

S
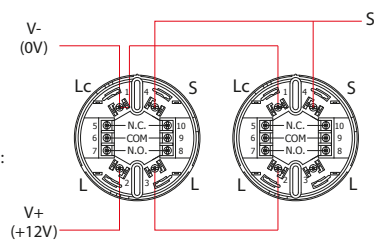
AH-0822

Gas Detector

Characteristics

• The AH-0822 features advanced technology, high accurate detection, low power-consumption and fast reaction time. It can detect natural gas and propane gas. Built-in buzzer and LED indicator alert by sounding and flashing.

• Sounding and flashing in alarm status; the green LED is lit during monitoring and the red LED flashes in alarm status.

• Dual power input: 12VDC and 24VDC operation in the same unit. No adjustment is required.

• Optional 110VAC or 220VAC adaptor is available.

• 1 set of relay output: COM. NO. NC. for CE version.

Specifications

| Model	AH-0822			
Approval	UL		CE	
Power Source	24V DC	12V DC	24V DC	12V DC
Standby Current	25~30mA	40~45mA	35~40mA	65~70mA
Alarm Current	40~70mA	50~75mA	75~90mA	90~105mA
Warm-up Period	5~8 minutes		about 35 seconds	
Sensitivity	0.021 ~ 0.300% (Propane) 0.050 ~ 0.714% (Methane)		0.050 ~ 0.300%	
Alarm Sound	85dB/3M and above		90dB/M and above	
Detection Type	Natural Gas & Propane Gas			
Ambient Temperature	-10°C ~ +55°C			
Dimensions	102 mm (Dia.) x 40.5 mm(H)			
Weight	About 130g			

40.5mm

102mm
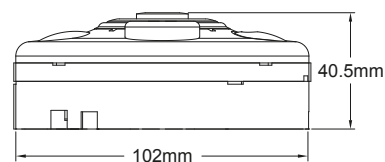
NQ3F

Single Station Heat Detector

Characteristics

• Voice warning in English.

• Low power consumption, powered by 3V long-life lithium batteries for 10 years.

• This detector is suitable for locations with high temperatures differentials, such as places (kitchen, restaurant and boiler house) where there is constant use of heat.

• Simple test method: Press test button to hear the alarm sound and confirm the unit is in normal condition.

• Easy installation: Install directly to proper location without any wiring.

• Optional magnetic testing device makes maintenance easy and simple.

110mm
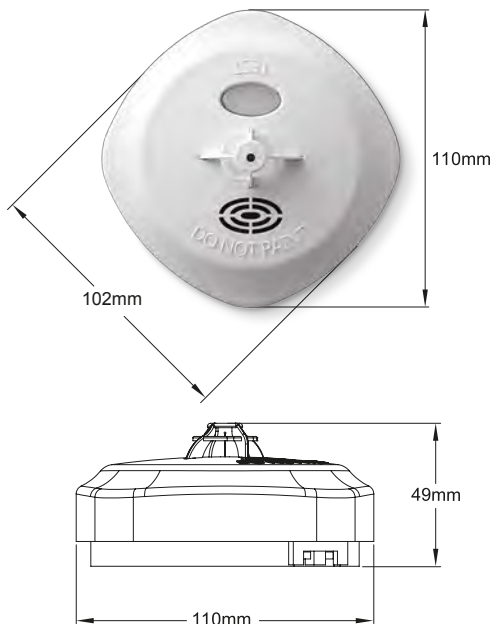
102mm

49mm

110mm

Specifications

Model	NQ3F
Power	3V lithium battery
Thermal Setting	70°C
Sound	90dB / M and above
Ambient Temperature	0°C ~ +50°C
Material	Fire-proof plastic
Dimensions	110mm (H) x 102mm (W) x 49mm (D)
Weight	About 120g
Color	White

Effective alert area

Construction/Height	Under 4M	4M ~ 8M
Fire-proof Building	60 M^2	30 M^2
Ordinary Building	30 M^2	15 M^2

CE

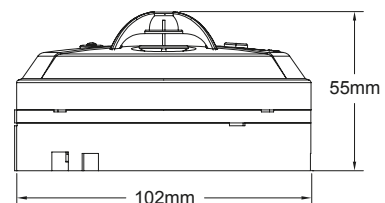# NQ9F

Single Station Heat Detector

Characteristics

• Detector has passed strict quality control and repetitive testing; hence its quality is durable and highly reliable.

• Simple test method: Press test button to hear the alarm sound and confirm the unit is in normal condition.

• Easy installation: Install directly to proper location without any wiring.

• It is equipped with 9VDC battery, and optional 100~240VAC power plug is available.

• Optional relay output : COM. NO. NC.

• Optional series connection wiring can co-activate up to 20 detectors.

Specifications

Model	NQ9F
Power	9V battery
Thermal Setting	70°C
Indicator	Standby: flash every 40 seconds
	Alarm: flash and beep continuously
	Battery abnormal: beeps and flash intermittently
Sound	90dB / M and above
Ambient Temperature	-10°C ~ +55°C
Material	Fire-proof plastic
Dimensions	102mm(Dia.) x 55mm(H)
Weight	About 150g
Color	White
Optional Function	Type 1 : 9V battery
	Type 2 : includes signal transfer COM. N.O. N.C.
	Type 3 : Type 2 + Type 4
	Type 4 : build-in 110VAC or 220VAC plug

Effective alert area

| Construction/Height	Under 4M	4M ~ 8M
Fire-proof Building	60 M^2	30 M^2
Ordinary Building	30 M^2	15 M^2

55mm

102mm

CE

NQ3S

Single Station Smoke Detector

Characteristics

• Voice warning in English.

• Low power consumption, powered by 3V long-life lithium batteries for 10 years.

• Simple test method: Press test button to hear the alarm sound and confirm the unit is in normal condition.

• Easy installation: Install directly to proper location without any wiring.

• Optional magnetic testing device makes maintenance easy and simple.

110mm
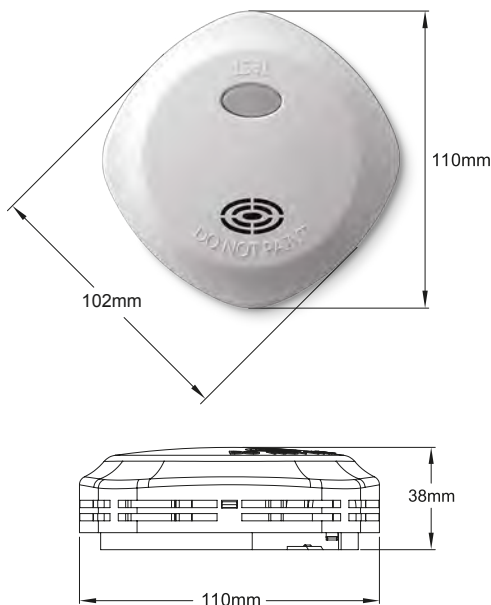
102mm

38mm

110mm

Specifications

Model	NQ3S
Power	3V lithium battery
Sensitivity Setting	Comply to EN
Sound	90dB / M and above
Ambient Temperature	0°C ~ +50°C
Material	Fire-proof plastic
Dimensions	110mm (H) x 102mm (W) x 38mm (D)
Weight	About 120g
Color	White

Effective alert area

Building Height	Area Covered
Under 4M	150 M^2
4 ~ 20M	75 M^2

CE

NQ9S
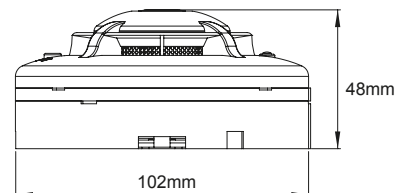
Single Station Smoke Detector

Characteristics

• New design on minified chamber makes so easy for maintenance.

• High luminous LED for light guiding design.

• Detector has passed strict EMC test, which greatly eliminates false alarms caused by interference from nearby sources.

• Simple test method: Press test button to hear the alarm sound and confirm the unit is in normal condition.

• Easy installation: Install directly to proper location without any wiring.

• It is equipped with 9VDC battery, and optional 100~240VAC power plug is available.

• Optional relay output : COM. NO. NC.

• Optional series connection wiring can co-activate up to 20 detectors.

Specifications

Model	NQ9S
Power	9V battery
Sensitivity Setting	Comply to EN14604
Indicator	Standby: flash every 45 seconds
	Alarm: flash and beep continuously
	Battery abnormal: beeps and flash intermittently
Sound	90dB / M and above
Ambient Temperature	0°C ~ +50°C
Material	Fire-proof plastic
Dimensions	102mm(Dia.) x 48mm(H)
Weight	About 165g
Color	White
Optional Function	Type 1 : 9V battery
	Type 2 : includes signal transfer COM. N.O. N.C.
	Type 3 : Type 2 + Type 4
	Type 4 : build-in 110VAC or 220VAC plug

Effective alert area

Building Height	Area Covered
Under 4M	150 M^2
4 ~ 20M	75 M^2

48mm

102mm

EN14604

LPCB
506f/01

CE
0832

QA31

Single Station Smoke Detector

Characteristics

- The QA31 features advanced photoelectric technology for precise detection. When smoke is detected or the manual test button is pressed, the buzzer sounds and LED flash.
- Low-Battery Warning: Unit beeps and LED flash intermittently to indicate battery needs replacing.
- Simple test method: Press test button to hear the alarm sound and confirm the unit is in normal condition.
- Easy installation: Install directly to proper location without any wiring.
- It is equipped with 9VDC battery, and optional 110VAC or 220VAC power plug is available.
- Optional relay output : COM. NO. NC.
- Optional series connection wiring can co-activate up to 15 detectors.

40 mm

105 mm

CE

Specifications

Model	QA31
Power	9V battery
Sensitivity Setting	Comply to EN14604
Indicator	Standby: flash every 45 seconds
	Alarm: flash and beep continuously
	Battery abnormal: beeps and flash intermittently
Sound	90dB / M and above
Ambient Temperature	-10°C ~ +55°C
Material	Fire-proof plastic
Dimensions	105mm(Dia.) x 40mm(H)
Weight	About 150g
Color	White
Optional Function	Type 1 : 9V battery
	Type 2 : includes signal transfer COM. N.O. N.C.
	Type 3 : build-in 110VAC or 220VAC plug
	Type 4 : Type 2 + Type 3

Effective alert area

Building Height	Area Covered
Under 4M	150 M^2
4 ~ 20M	75 M^2

AH-03127

AH-03127-BS

AH-03127-S

Electronic Sounder and Beacon

General

This electronic sounder is designed for use with fire alarm systems, security systems and industrial signaling systems. Combined sounder and beacon provides an audio-visual warning which is suitable for places where high sound output and visual indication is required.

Characteristics

• 32 signal tones selectable by Dip switch.

• High sound output with low current consumption.

• High efficiency lens for maximum light output.

• Volume Control as standard.

• Two sets of IN and OUT terminals, easy for installation.

Specifications

Model	AH-03127-S	AH-03127-BS
Voltage	18 ~ 24V DC	
Current Consumption 24V DC (MAX)	35mA	40mA
Sound Output 24V DC dB (A) at 1 meter	Max. 106	
Volume Control	0 to -20dB adjustment	
Ingress Protection	IP44	
Ambient Temperature	-25°C ~ +80°C	
Material	Fire-proof plastic	
Dimensions	92.5mm(Dia.) x 94mm(H)	92.5mm(Dia.) x 110mm(H)
Weight	254g	278g

EN54 LPCB CE
506e/02/03   0832

Order information

| AH-03127-S	Electronic Sounder
AH-03127-BS	Electronic Sounder and Beacon

EBE9

Electronic Sounder and Beacon

EBE9-S

Characteristics

- 31 signal tones selectable by dipswitch.
- Volume control adjustable by VR.
- Ingress Protection IP65 outdoor type.
- Circuit uses special Boost Converter and MCU to reach high illumination and low current.
- High efficiency Red/White LED with special optical design lens distributed the illumination properly, to be complied with EN54-23 standard.

EBE9-BSR/EBE9-BSW
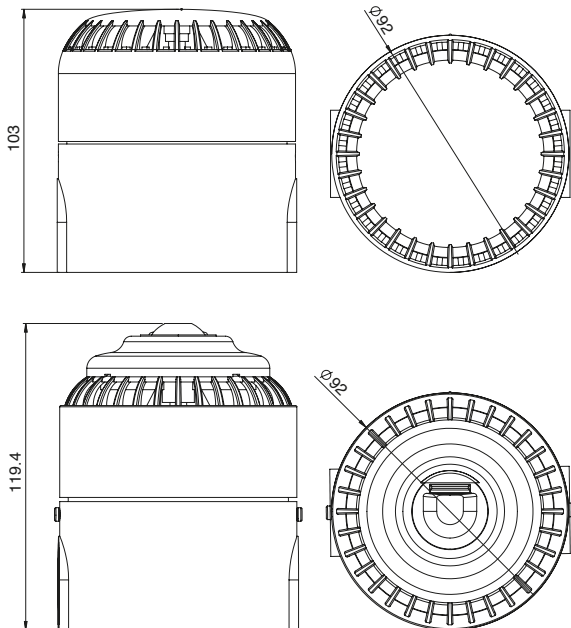
Specifications

Model	EBE9-S	EBE9-BSR	EBE9-BSW
LED Color	N/A	Red LED	White LED
Light Output	N/A	About 6 CD	
Flash Rate	N/A	1Hz / 0.5Hz	
Current Consumption@24VDC (MAX)	39mA	45mA	
Voltage	18~28V DC		
Sound Output	99dB @1M		
Tones	31 Type		
Ingress Protection	IP65		
Ambient Temperature	-10°C ~ +50°C		
Material	Fire-proof plastic		
Color	Red		
Dimensions (mm)	92 (Dia.) x 103 (H)	92 (Dia.) x 119.4 (H)	
Weight	206g	262g	

Order information

EBE9-S	Sounder
EBE9-BSR	Sounder and Beacon (Red LED)
EBE9-BSW	Sounder and Beacon (White LED)

CE

AH-0817

Resettable Manual
Call Point

Features

• Red LED with current limiting resistor.

• Three different resistance selectable (270, 470, 680 ohm).

• Choice of red, yellow, blue or green finish also available for custom-made.

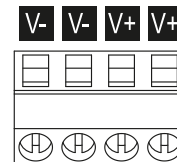• Clear protection cover is also available (optional).

Specifications

Model	AH-0817
Operating Contact	6A 125/250VAC
Resistance	30MΩ
Ambient Temperature	-25°C ~ +85°C
Dimensions	87.5mm (H) x 87.5mm (W) x 54mm (D)
Weight	About 145g

EN54   LPCB 506d/02   CE 0832

Wiring

V-	V-	V+	V+

Jumper Selections

J1 J2 J3

Clean normally open contact - No LED possible

Blocking diode selected - No LED possible

Used for future application

270 ohm resistor selected - LED illuminates when the call point is activated

470 ohm resistor selected - LED illuminates when the call point is activated

680 ohm resistor selected - LED illuminates when the call point is activated

AH-0217

Manual Call Point

EN listed

CE listed

Features

• Available in flush or surface mounted models.

• Plastic film on glass.

• Test key inserted from bottom.

• Suitable for the majority of conventional fire alarm system.

• Clear protection cover is also available (optional).

• Choice of red, yellow, blue or green finish also available for custom-made.

Specifications

Model	AH-0217
Operating Contact	6A 125/250VAC
Resistance	30MΩ
Ambient Temperature	-25°C ~ +85°C
Dimensions	88mm(H) x 88mm(W) x 52mm(D)
Weight	About 165g

EN54 LPCB 506d/01 CE

AH-9717 with base

AH-9717

Manual Call Point

AH-9717

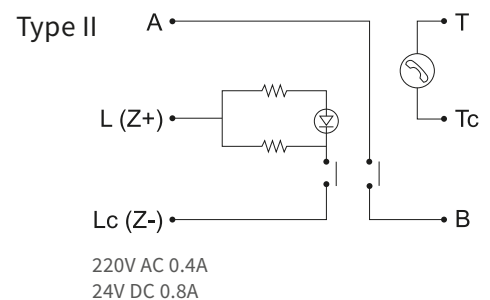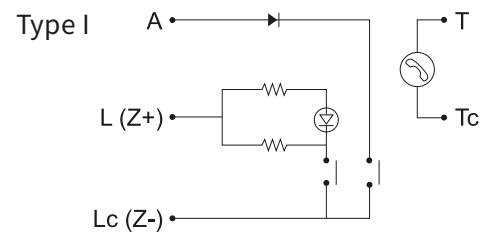## Features

- Emergency press alarm, immediately activates fire alarm signal.

- Indicator light above fire alarm push-button confirms the alarm signal transfer.

- There are a phone jack and reset button behind the cover cap.

- Type I is simultaneous dual loop, Type II is simultaneous dual signal transfer (refer to diagram below)

- Optional base is available.

Specifications

Model	AH-9717
Operating Power	24V DC 30mA
Operating Contact	Max. 30V DC 500mA
Sub-function	Phone jack, confirmation LED, reset button.
Material	Fire-proof plastic
Dimensions	140mm(Dia.) x 45mm(H)
Weight	About 160g

Type I

Type II

220V AC 0.4A
24V DC 0.8A

CE

NQ618
NQ418

Fire Alarm Bell

NQ618

NQ418

Features

- Bell with plastic base, total insulation from electricity and easy installation.

- Motor energized, low power consumption, long operating life.

- Bell shell is made of steel plate, so it will sound loud and clear.

- 12VDC bells are also available.

Specifications

Model	NQ618	NQ418
Dimensions	ø6" (152mm) x 58mm (H)	ø4" (100mm) x 52mm (H)
Voltage	24V DC	
Current	28mA	
Sound Output	90dB @1M	
Material	Steel Plate	
Base Plate	ABS plastic	
Weight	About 810g	About 375g

CE

AH-0218
AH-9719

Fire Alarm Bell &
Indicating Lamp

AH-0218

AH-9719

AH-0218 Fire Alarm Bell 6"

• High efficiency low current consumption on 24VDC motorized bells.

• Terminals will accept 2.5mm cables.

• Simple installation via multi-fixing base plate for all types of location.

• Fitted with two series diodes for fault monitoring.

• Option of customized discs printed with company name and logo.

• *12VDC bells are also available.*

AH-9719 Fire Indicating Lamp

• Uses white bulb (or low current LED) and installed inside the red lamp cover.

• When lit, it is clear visible within 10 meters.

Specifications

Model	AH-0218
Dimensions	ø6" (152mm) x 56mm(H)
Voltage	24V DC
Current	25mA
Sound Output	93dB @1M
Movement	Motor, Pinion and striker
Movement Features	DC Motor, acetal gear wheel, steel striker
Gong	Steel, secured with phillips screw
Base Plate	Molded black polycarbonate
Material	Steel plate
Weight	About 850g

Specifications

Model	AH-9719
Dimensions	90mm(Dia.) x 70mm(H)
Consumption Current	24V DC 60mA / LED 20mA
Bulb	30V/2W bulb or LED
Material	Fire-proof plastic
Weight	About 70g

CE

EN54   LPCB 506e/01   CE

AH-03128
AH-07128

Detector Test Device

AH-03128

AH-07128

AH-03128 Detector Test Device

- For testing heat and smoke detectors.
- Extension pole is very flexible. It has five sections and can expand from 1.44m to 5m.
- The extension pole on the test vessel allows the user to easily reach the detector.
- The enclosed gas torch its temperature can be adjusted.
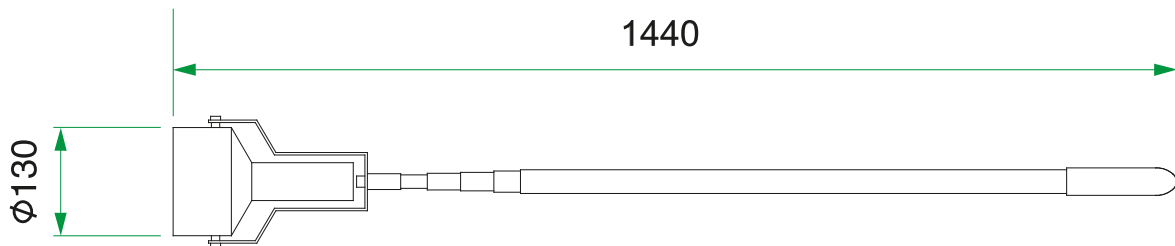- The smoke detector tester can spray about hundred times.

AH-07128 Magnetic Detector Test Device

- Use with model nos. 8011, AH-0715, and 8016 with magnetic test feature.

AH-03151

Dimensions of Test Device AH-03128 : mm

1440

Φ130

Specifications

Model	AH-03128	
Contents	Smoke and heat detector test vessel	x1
	Extension pole	x1
	Gas torch	x1
	Pack bag	x1

- (Optional) AH-03151 Smoke Detector Tester

NFBS/NFBR

## Detector Test Device

Heating fiber

AH-03151

Characteristics

• The swing featured detector test vessels support easy movement used with the extension pole in some places are not easy to reach, for example, obstacles below or inclined corners.

• The equipped extension pole is flexible with five sections ranging from 1.15 to 4.65 meters.

• Compatible with other brands of smoke spray. (NFBS)

• Adjustable fuel gate for temperature control. (NFBR)

• Optional smoke tester spray. (AH-03151)

Specifications

Model	NFBS	NFBR
Tester Type	for smoke detectors	for heat detectors
Contents	Smoke detector test vessel x 1 Extension pole x 1 Black pack bag x 1	Heat detector test vessel x 1 Top frame x 1 Heating fiber x 1 Base with fuel cup x 1 Extension pole x 1 Black pack bag x 1
Dimensions (mm)	Test vessel 130(Dia.) x 160 (H)	Test vessel 130(Dia.) x 190 (H)
	Extension pole 1150 ~ 4650mm (H)	
Weight	Test vessel about 350g	Test vessel about 430g
	Extension pole about 900g	
Material	Aluminum anodizing & chrome plated iron	

Dimensions

NFBS
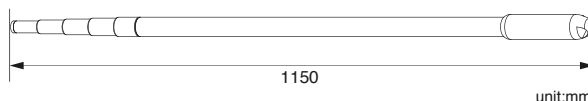
Ø130

1310

NFBR

Ø130

1340

Extension pole

1150
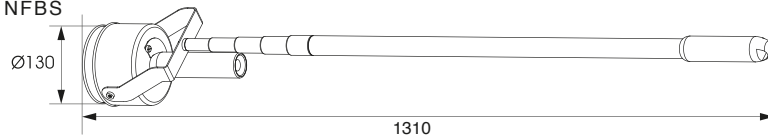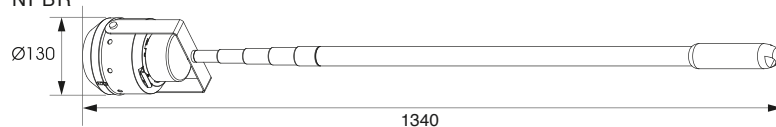
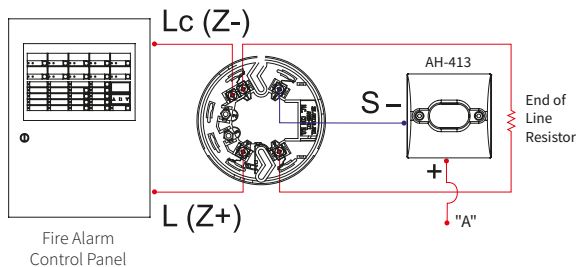unit:mm

AH-413

Remote Indicating Lamp

Features

This unit is designed to ensure that alarm signal can be actually transmitted to all locations. Especially for a closed room, any fire inside can be indicate outside.
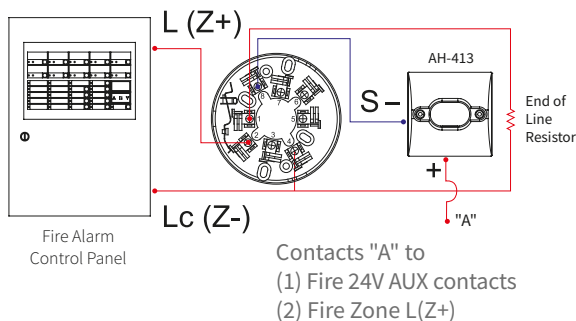
Characteristics

- Outstanding look from the design of art
- Low current consumption
- High intensity LED for quick identification
- Larger indicating lamp
- Applicable for 12VDC and 24VDC
- Flash light is available for optional feature

AHMB-071

Lc (Z-)

L (Z+)

AH-413

S −

+

"A"

End of Line Resistor

Fire Alarm Control Panel

AHMB-031

L (Z+)

Lc (Z-)

AH-413

S −

+

"A"

End of Line Resistor

Fire Alarm Control Panel

Contacts "A" to
(1) Fire 24V AUX contacts
(2) Fire Zone L(Z+)

Specifications

Model	AH-413
Power Source	12/24V DC
Alarm Current @24V DC	15mA
Standby Current	N/A
Ambient Temperature	-10°C ~ +55°C
Material	Fire-proof plastic
Color	White surface/ Red LED
Dimensions	85mm(H)x85mm(W)x23mm(D)
Weight	About 28g

CE

Wiring Diagram

Lc (Z-)

L (Z+)

AH-413

S −

+

"A"

End of Line Resistor

Fire Alarm Control Panel
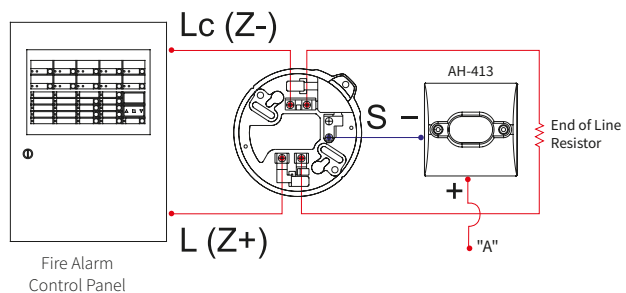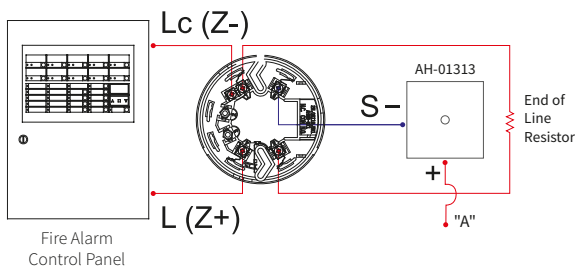
AH-01313

Remote Indicating Lamp

Features

This unit is designed to ensure that alarm signal can be actually transmitted to all locations. Especially for a closed room, any fire inside can be indicate outside.
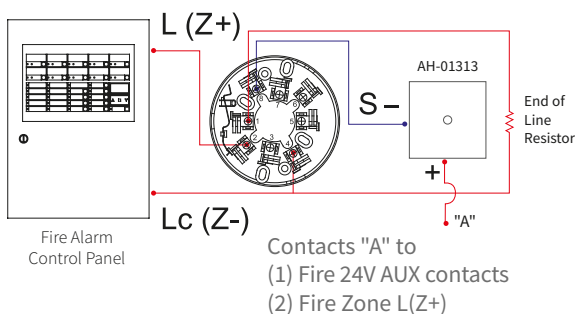
Characteristics

• Outstanding look from the design of art

• Low current consumption

• High intensity LED for quick identification

AHMB-071

Fire Alarm
Control Panel

AHMB-031

Fire Alarm
Control Panel

Contacts "A" to
(1) Fire 24V AUX contacts
(2) Fire Zone L(Z+)

Specifications

Model	AH-01313
Power Source	24V DC
Alarm Current @24V DC	12mA
Standby Current	N/A
Ambient Temperature	-10°C ~ +55°C
Material	Fire-proof plastic
Color	White surface/ Red LED
Dimensions	70mm(H)x70mm(W)x15mm(D)
Weight	About 32g

Wiring Diagram

Fire Alarm
Control Panel
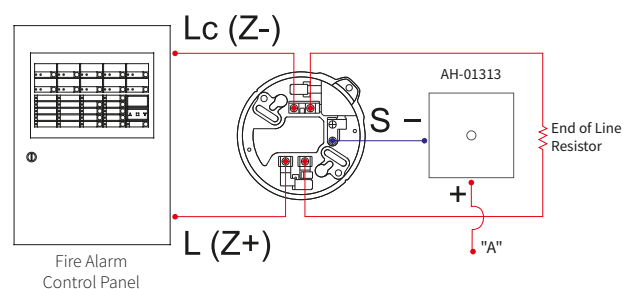
Vivid 32

Fire Alarm Control Panel

Characteristics

- Model range from 1 to 32 zones.

- AC power supply has passed EMI (Electromagnetic Interference).

- Each zone has a separate disable function.

- Double sets of sounder outputs.

- Long-term or temporary silencing feature.

- Microprocessor-base design.

- Zonal sounder circuit with supervision.

- LCD (24x2 lines) for events display and store capacity up to 255 events.

- Fire Relay Output contacts and Fault Relay Output contacts.

- Switch membrane provides longer service and is water-proof, dust resistant and easy to clean.

Specifications

Model	Vivid 32	
Power	220V AC, 50/60Hz *Others also available	
Battery Capacity	1~16 zone 24V/4 Ah	17~32 zone 24V/7Ah
Max. Output Current	2A @24V DC	
# of heat detectors connected	No limit *Except electronic-type	
# of smoke detectors connected	30/zone *Horing Lih manufactured	
Max. No. of Bells @25mA	40 per sounder circuit	
End of Line Resistor	4.7kΩ *One per zone	
Material	1.2mm steel plate	
Dimensions (H x W x D) mm	350 x 350 x 100 400 x 350 x 125 (with zone indication)	
Optional Features	Individual zone indication	

EN54
pending

CE

AH-03312

Fire Alarm Control Panel

32 Zone

Characteristics

- Model range from 1 to 32 zones.
- AC power supply has EMI (Electromagnetic Interference).
- Each zone has a separate disable function.
- Double sets of sounder contacts.
- Automatic telephone dialer feature.
- Long-term or temporary silencing feature.
- Protection against voltage spikes up to 2.5KV.
- Microprocessor-base design.
- Sounder short circuit or disconnection detection.
- Fire Alarm NO, NC, COM and Fault NO, NC, COM output contact points.
- Fire Relay Output contacts and Fault Relay Output contacts.
- Switch membrane provides longer service and is waterproof, dust resistant and easy to clean.

8 Zone

4 Zone

AH-04224 Annunciator

Specifications

	32 Zone	8 Zone	4 Zone
Model	**AH-03312-32L**	**AH-03312-8L**	**AH-03312-4L**
Power	220V AC/50Hz *Others also available		
Battery Capacity	24V/12Ah	24V/7Ah	24V/4Ah
Max. Output Current	2A @24V DC		
# of heat detectors connected	No limit *Except electronic-type		
# of smoke detectors connected	30/zone *Horing Lih manufactured		
Max. No. of Bells @25mA	40 per sounder circuit		
End of Line Resistor	4.7kΩ *One per zone		
Material	1.2mm steel plate		
Dimensions	550mm(H) 400mm(W) 150mm(D)	370mm(H) 340mm(W) 135mm(D)	320mm(H) 250mm(W) 100mm(D)
Optional Features	LCD display (2x20) with simple function keypad		N/A

CE

QA12 & 5-QA12

Fire Alarm Control Panel

QA12

5-QA12

Characteristics

- Alarm verification up to 7 seconds for real fire confirmation and avoid false alarm from environment interference.
- Zone test mode to perform alarm and fault functional test.
- Each zone has a separate disable function.
- Fault indications for wire disconnection, unstable AC power, battery short circuit or disconnection and internal PCB unplug.
- 5-QA12 only up to 5 zones, QA12 could up to 80 zones.

Specifications

Model	5-QA12	QA12
Power	220V AC, 50/60Hz *Others also available	
Battery Capacity	24V/4Ah	
# of heat detectors connected	No limit *Except electronic-type	
# of smoke detectors connected	30/zone *Horing Lih manufactured	
End of Line Resistor	10kΩ *One per zone	
Material	1.2mm steel plate	
Color	Pearl gray *Others also available	
Dimensions (mm) H x W x D	320 x 250 x 100	10 zone : 450 x 330 x 130 20 zone : 550 x 330 x 130 30 zone : 680 x 380 x 150 40 / 50 zone : 950 x 420 x 150 60 ~ 80 zone : 1300 x 420 x 170

CE

QP Series

Fire Alarm Control Panel

QP212

QP112

QP412

Characteristics

- Removable front board for easy maintenance.
- Easy-to-clean front board is able to avoid dirt attached.
- High luminance and long life span LED.
- Build-in 24V power and battery charger.
- Independent visual & audible indication for zone open/ short fault.
- Independent visual & audible indication for AC power & battery fault.
- Visual & audible indication for sounder short circuit fault.
- Buzzer silence with 3-mode operation feature.

- Accurate supervision circuit for battery.
- Short circuit = Alarm feature (selected by JUMPER applicable for manual call point w/o resistance) Model. QP112
- Day/Night Mode Selection. (Model. QP212, QP412)
- System will back to normal automatically after alarm status is released. (Model. QP212, QP412)
- Ground fault detection feature. (Model. QP212, QP412)
- Fault Output (NO. NC. COM), Alarm Output (NO. NC. COM.), Zone Output. (Model. QP212, QP412)
- 24V DC power output for external load (Model. QP412)
- Zone EOL resistor can be set from panel board (Model. QP412)

Specifications

	1 zone	2 zone	4 zone
Model	QP112	QP212	QP412
Power	220V AC, 50/60Hz *Others also available		
Battery Capacity	24V /1.2Ah		
Max. Output Current	1 A	1.2 A	2.0 A
# of heat detectors connected	No limit *Except electronic-type		
# of smoke detectors connected	20/zone *Horing Lih manufactured		
End of Line Resistor	4.7 kΩ		
Material	1.2mm steel plate		
Dimensions (H x W x D) mm	203 x 272 x 71		

CE

Multi-Hazard Suppression Systems

QSP-120 5 Loop (10 zones)

QSP-120 1 Loop (2 zones)

AH-03233

QSP-32

AH-03233 Releasing Indicator

• The display can be set according to customer's requirements.

QSP-32 Manual Pull Station

• Emergency Start/Stop switch, Auto/Manual key switch.

• Power LED, Releasing LED, Start LED, Stop LED, Auto LED, and Manual LED.

• Digital release countdown.

QSP-120 Multi-Hazard Suppression Control Panel

• Panel and manual pull station count-down simultaneously.

• Discharge delay timer setting (20~999 seconds).

• Cross-zone detection confirmation makes better stability.

• Built-in phone jacks on both panel and manual pull station.

• Expandable to 5 cross-zone detection sections.

• Each section has manual/auto operation mode.

• Wiring trouble inspection.

• Through dipswitch to select the supervision on feed-back signal of agent discharge.

• All 24V output contacts are protected by fuse.

Specifications

Model	AH-03233
Supply Voltage	24V DC 670mA (bulb) 310mA (LED)
Light Source	1W bulb x 18 or ø5 LED RED x 28
Display Type	Non-flash
Material	0.8mm stainless steel
Color	Red
Dimensions	155mm(H) x 405mm(W) x 60mm(D)

Specifications

Model	QSP-32
Supply Voltage	24V DC
Material	1.2mm stainless steel
Color	Red
Dimensions	160mm(H) x 165mm(W) x 50mm(D)

Specifications

Model	QSP-120
Power	220VAC 50/60Hz * others also available
Battery Capacity	24VDC 4Ah
Zone voltage	24VDC
EOL Resistor	4.7kΩ
Detection Type	Cross-zone detection
# of heat detectors connected	No limit *Except electronic-type
# of smoke detectors connected	25/zone *Horing Lih manufactured
Dimensions(mm)	1 Loop : 350 (H) x 400 (W) x 130 (D) 5 Loop : 550 (H) x 400 (W) x 130 (D)
Color	Ivory

CE

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