



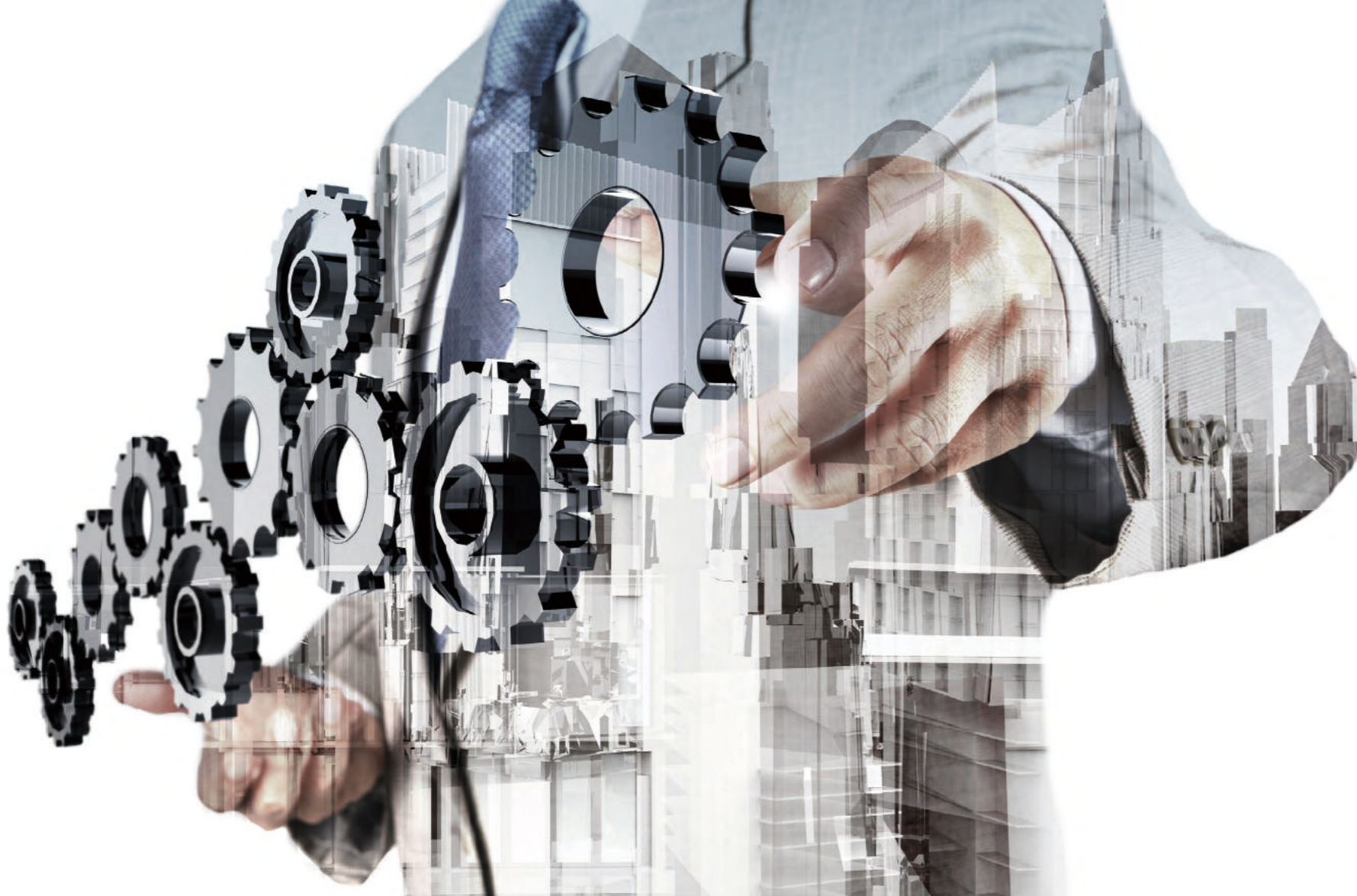
HoringLih has designed high quality safety and protection products for a wide range of fire alarm systems including detectors, control panels, fire alarm components and many more. The addition of our state-of-the-art manufacturing facility enables us to maintain quality assurance as we continue to expand 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 35 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.





Advanced
technology and
experienced
skill

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QA Series

Addressable Fire Alarm Systems

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.



QA16
Addressable Fire
Alarm Control Panel



QA01
Addressable Photoelectric
Smoke Detector



QA05
Addressable Combination
Smoke & Heat Detector



QA06
Addressable Heat Detector

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.

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 |

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 | | |
| 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 |
| Material | Fire-proof plastic | | |
| Color | White | | |

Addressable Detectors

Characteristics

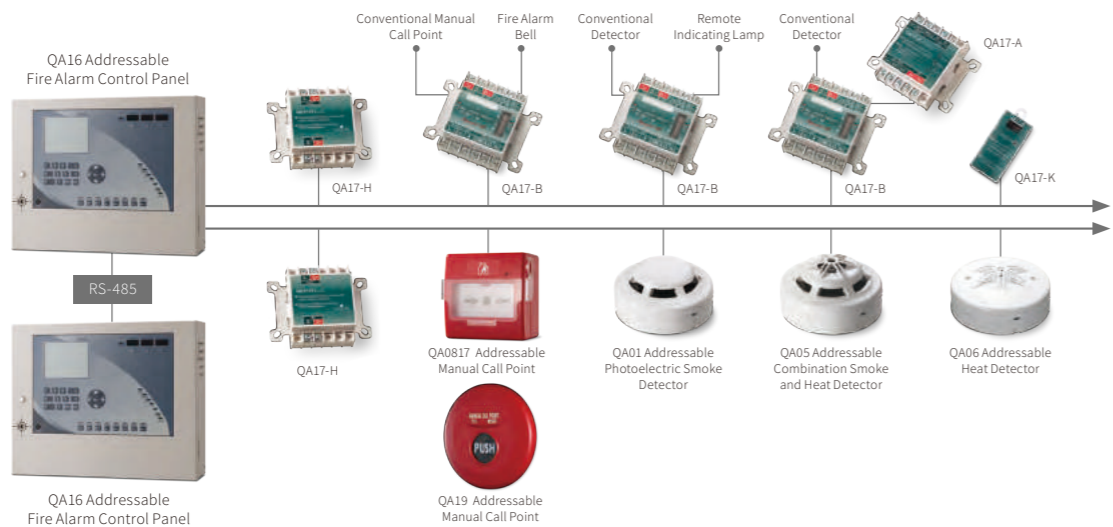
- Latching function helps to identify alarm device clearly and quickly.
- Address coding by dip switch makes the job easier.
- Magnetic test feature makes maintenance easy and simple.
- Non-loosening screws on base terminal for easy installation.
- Detector is made of high endurance, solid and colorfast 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.

QA Series

Addressable Fire Alarm Systems



QA Series Addressable Fire Alarm System Configuration



Module Series

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

Addressable Manual Call Points

Specifications

| Model | QA19 | QA0817 |
|----------------------|------------------------------------|------------------------------|
| Purpose | Signal will directly sent to panel | |
| System Connected | Control panel zone | |
| Input Source | Zone signal | |
| Output Contacts/Load | N/A | |
| Address Coding | Binary | |
| Operating Voltage | 26V DC | |
| Alarm Current | 6mA | |
| Quiescent Current | 850μA | |
| Ambient Temperature | 0°C ~ +50°C | |
| Material | Fire-proof plastic | |
| Color | Red | |
| Dimensions(mm) | 140(Dia.) x 45(H) | 87.5(H) x 87.5(W) x 54(D) |
| Remarks | - | Protection Cover is optional |

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

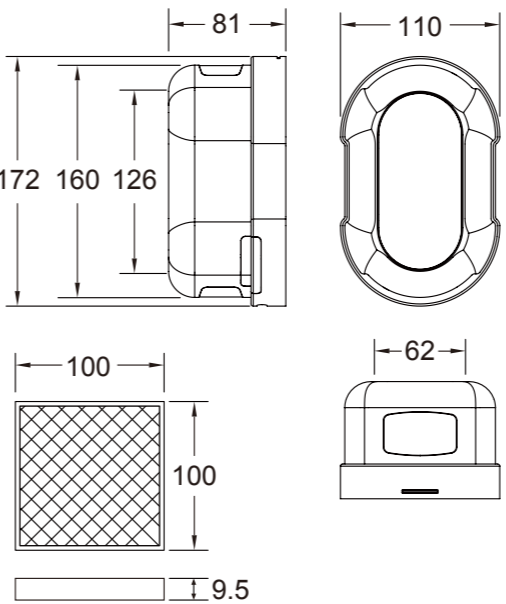


Operating Principle

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.

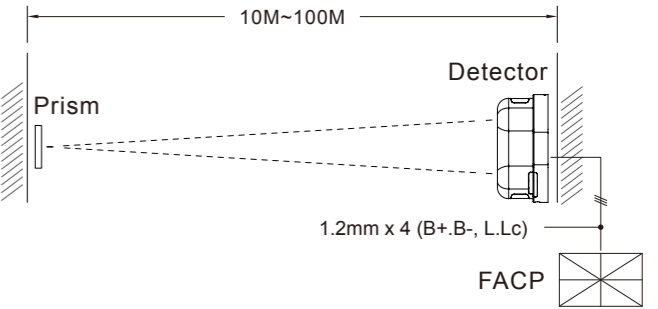
Features

- 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: $\pm 0.5^\circ$ / Prism: $\pm 5.0^\circ$ |
| Ambient Temperature | -10°C ~ +55°C |
| Material | ABS Plastic |
| Color | White |
| Weight | 350g (Detector) |





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

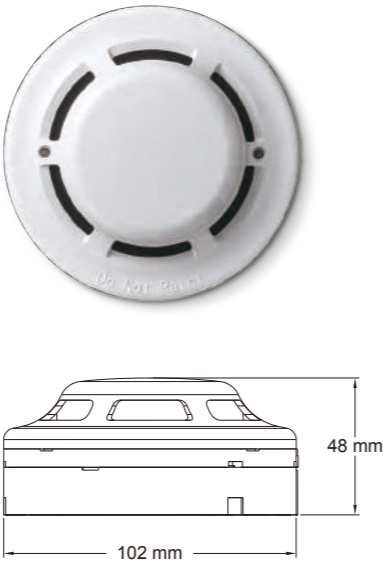
| Model | Q01-2 | Q01-3 | Q01-4 |
|------------------------------|-----------------------|-------|-------------------------------|
| Alarm Contact | N/A | N/A | 0.8A @30V DC 0.4A @125V AC |
| Voltage Range | 12 ~ 30V DC | | |
| Alarm Current @24V DC 470Ω | 40mA | 40mA | 45mA |
| Standby Current @24V 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 |



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

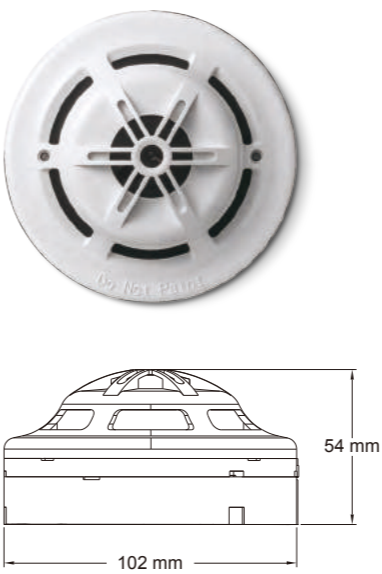
| Model | Q05-2 | Q05-3 | Q05-4 |
|------------------------------|-----------------------|-------|-------------------------------|
| Alarm Contact | N/A | N/A | 0.8A @30V DC 0.4A @125V AC |
| Voltage Range | 12 ~ 30V DC | | |
| Alarm Current @24V DC 470Ω | 40mA | 40mA | 45mA |
| Standby Current @24V 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 |





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

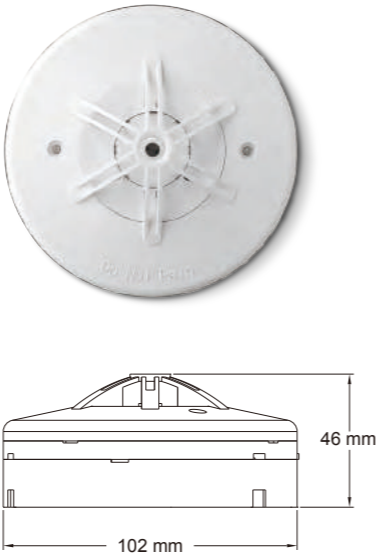
| Model | Q06-2 | Q06-3 | Q06-4 |
|------------------------------|-----------------------|-------|-------------------------------|
| Alarm Contact | N/A | N/A | 0.8A @30V DC 0.4A @125V AC |
| Voltage Range | 12 ~ 30V DC | | |
| Alarm Current @24V DC 470Ω | 40mA | 40mA | 45mA |
| Standby Current @24V 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 |



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.

Specifications

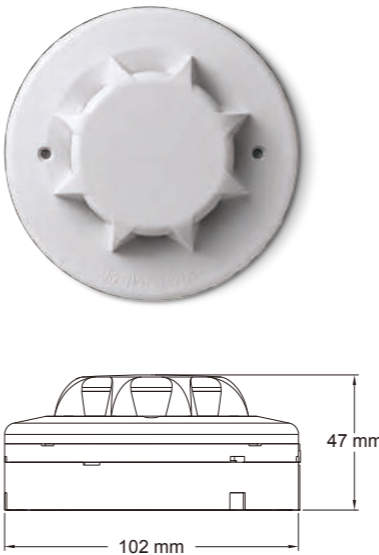
| Model | 8011-2 | 8011-3 | 8011-4 |
|------------------------------|-----------------------|--------|-------------------------------|
| Alarm Contact | N/A | N/A | 0.8A @30V DC 0.4A @125V AC |
| Voltage Range | 12 ~ 30V DC | | |
| Alarm Current @24V DC 470Ω | 40mA | 40mA | 45mA |
| Standby Current @24V 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

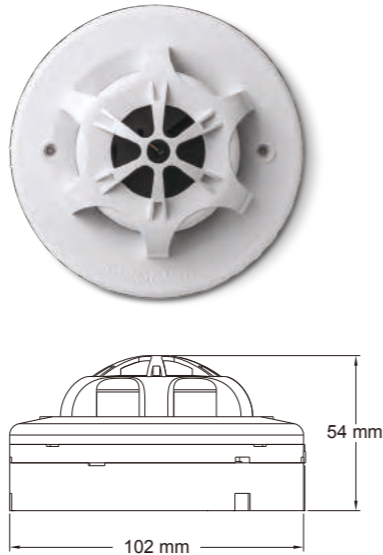
| Model | AH-0715-2 | AH-0715-3 | AH-0715-4 |
|------------------------------|-----------------------|-----------|-------------------------------|
| Alarm Contact | N/A | N/A | 0.8A @30V DC 0.4A @125V AC |
| Voltage Range | 12 ~ 30V DC | | |
| Alarm Current @24V DC 470Ω | 40mA | 40mA | 45mA |
| Standby 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 |



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.

Specifications

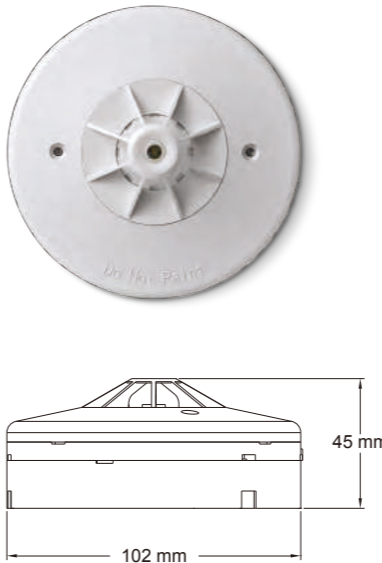
| Model | 8016-2 | 8016-3 | 8016-4 |
|------------------------------|-----------------------|--------|-------------------------------|
| Alarm Contact | N/A | N/A | 0.8A @30V DC 0.4A @125V AC |
| Voltage Range | 12 ~ 30V DC | | |
| Alarm Current @24V DC 470Ω | 40mA | 40mA | 45mA |
| Standby Current @24V 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

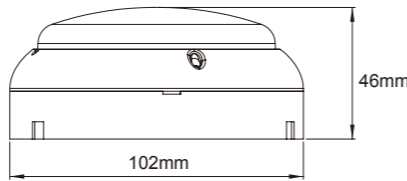
- Detector is made of high endurance, solid and colorfast Fire-proof plastic.
- Non-loosening screws on base terminal for easy installation.
- The unit is completely sealed; its function is not affected by humidity, dust or insects.
- This detector has passed strict quality control and repetitive testing, 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 |



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.

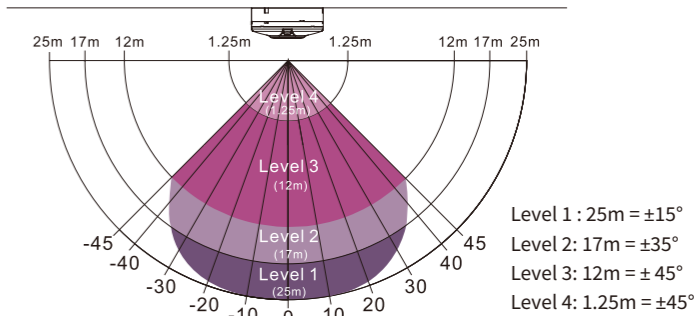
Specifications:

| 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.

Detection range and angle:





AHMB-071



Implanted-Type

AHMB-071

Mounting Base

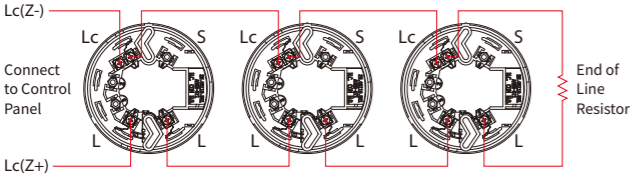
Design Characteristics

- 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.

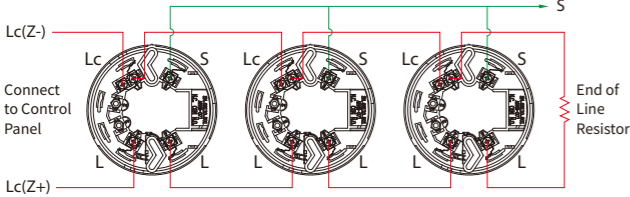
Order information

| 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. |

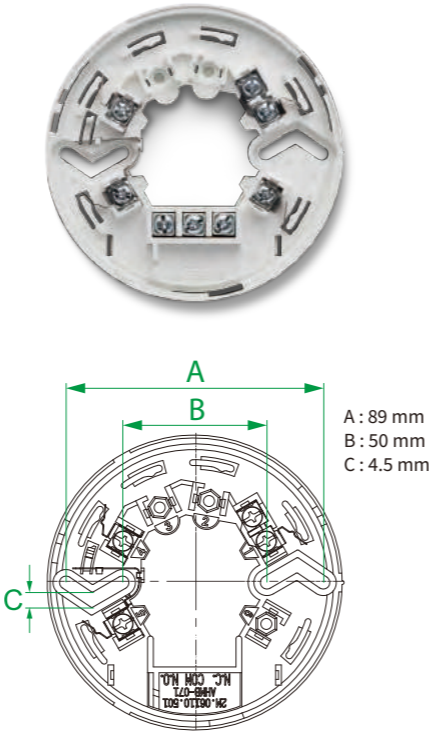
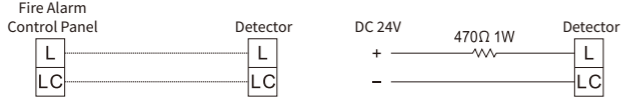
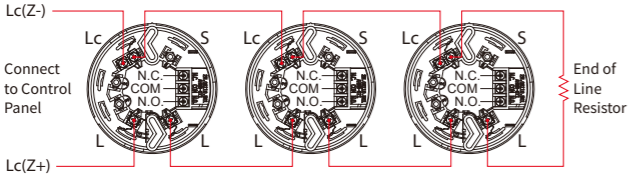
2-Wire Type (Regular)



3-Wire Type (Signal Transfer)



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



AH-031 Series

- AH-0311 Multi-Purpose Smoke Detector
- AH-0315 Multi-Purpose Smoke and Heat Detector
- AH-0316 Multi-Purpose Combination Heat Detector

Multi-purpose Resettable Type

This unit has designed for relay output feature with optional individual power source and it has been used widely in the current market. This resettable detector is not only use as a fire alarm system but will also supervise input power via an optional relay output for power breakdown or wire break. Fault relay contact will open when power breakdown occur and fire alarm signal will transmitted to connected system or computer terminal when detector is activated. When the alarm signal is absent the detector will automatically return to standby status. Optional built-in buzzer can sound a warning at the first sign of fire. This detector is currently used quite often in security systems and is also promoted for use in communications, banking, shipping or the art business.

Characteristics

- Special chamber design has greatly decreased dust levels and improved detection accuracy.
- Dual LEDs for 360-degree visibility.
- Advanced technology enables this detector to increase its precision in fire detection, improve signals to avoid noise interference and thus reduce unwanted false alarm.
- Low current consumption that allows more detectors to be used with each control panel.
- Dual contacts on the base which enhance the connecting stability between sensor and base.
- All bases are fitted with a shorting spring to permit maintenance without disconnecting when removing the detector head.



AH-0311



AH-0315



AH-0316



AH-0311

Multi-Purpose Smoke Detector

Specifications

| Model | AH-0311-2 | AH-0311-3 | AH-0311-4 |
|------------------------------|-----------------------|-----------|-----------|
| Voltage Range | 12 ~ 30V DC | | |
| Standby Current @24V DC 470Ω | under 40μA | | |
| Alarm Current @24V DC 470Ω | 40mA | 30mA | 40mA |
| Sensitivity Setting | Comply to EN54 | | |
| Ambient Temperature | -10°C ~ +55°C | | |
| Material | Fire-proof plastic | | |
| Dimensions | 102mm(Dia.) x 49mm(H) | | |
| Weight | 155g | 157g | 165g |
| Color | White | | |

Order information

| | |
|-----------|-------------------------------------|
| AH-0311-2 | 2-wire |
| AH-0311-3 | 3-wire with remote indicator output |
| AH-0311-4 | 4-wire with relay output |

Specifications (Resettable)

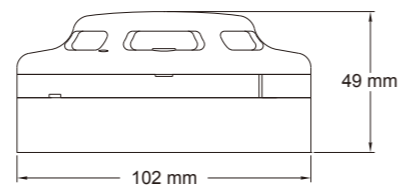
| Model | AH-0311-S | AH-0311-BS | AH-0311-BPS |
|-----------------|-----------|------------|-------------|
| Alarm Current | 15mA | 50mA | 80mA |
| Standby Current | 115μA | 115μA | 15mA |
| Voltage Range | 12V DC | 12V DC | 12V DC |
| Weight | 168g | 170g | 170g |

Order information (Resettable)

| | |
|-------------|---|
| AH-0311-S | + Relay Output |
| AH-0311-BS | + Buzzer + Relay Output |
| AH-0311-BPS | + Buzzer + Power off & Wire Disconnection Warning + Relay Output |

Effective alert area

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



AH-0315

Multi-Purpose Smoke and Heat Detector

Specifications

| Model | AH-0315-2 | AH-0315-3 | AH-0315-4 |
|------------------------------|-------------------------|-----------|-----------|
| Voltage Range | 12 ~ 30V DC | | |
| Standby Current @24V DC 470Ω | under 55μA | | |
| Alarm Current @24V DC 470Ω | 40mA | 30mA | 40mA |
| Sensitivity Setting | Comply to EN54 | | |
| Thermal Setting | 58°C | | |
| Response Grade | Comply to EN54, Grade 1 | | |
| Ambient Temperature | -10°C ~ +55°C | | |
| Material | Fire-proof plastic | | |
| Dimensions | 102mm(Dia.) x 58mm(H) | | |
| Weight | 155g | 157g | 165g |
| Color | White | | |

Order information

| | |
|-----------|-------------------------------------|
| AH-0315-2 | 2-wire |
| AH-0315-3 | 3-wire with remote indicator output |
| AH-0315-4 | 4-wire with relay output |

Specifications (Resettable)

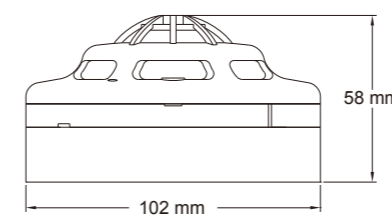
| Model | AH-0315-S | AH-0315-BS | AH-0315-BPS |
|-----------------|-----------|------------|-------------|
| Alarm Current | 25mA | 65mA | 80mA |
| Standby Current | 125μA | 125μA | 15mA |
| Voltage Range | 12V DC | 12V DC | 12V DC |
| Weight | 164g | 166g | 171g |

Order informations (Resettable)

| | |
|-------------|---|
| AH-0315-S | + Relay Output |
| AH-0315-BS | + Buzzer + Relay Output |
| AH-0315-BPS | + Buzzer + Power off & Wire Disconnection Warning + Relay Output |

Effective alert area

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





AH-0316

Multi-Purpose Combination Heat Detector

Specifications

| Model | AH-0316-2 | AH-0316-3 | AH-0316-4 |
|------------------------------|-------------------------|-----------|-----------|
| Voltage Range | 12 ~ 30V DC | | |
| Standby Current @24V DC 470Ω | under 45μA | | |
| Alarm Current @24V DC 470Ω | 30mA | 35mA | 40mA |
| Thermal Setting | 58°C | | |
| Response Grade | Comply to EN54, Grade 1 | | |
| Ambient Temperature | -10°C ~ +55°C | | |
| Material | Fire-proof plastic | | |
| Dimensions | 102mm(Dia.) x 58mm(H) | | |
| Weight | 145g | 147g | 160g |
| Color | White | | |

Order information

| | |
|-----------|-------------------------------------|
| AH-0316-2 | 2-wire |
| AH-0316-3 | 3-wire with remote indicator output |
| AH-0316-4 | 4-wire with relay output |

Specifications (Resettable)

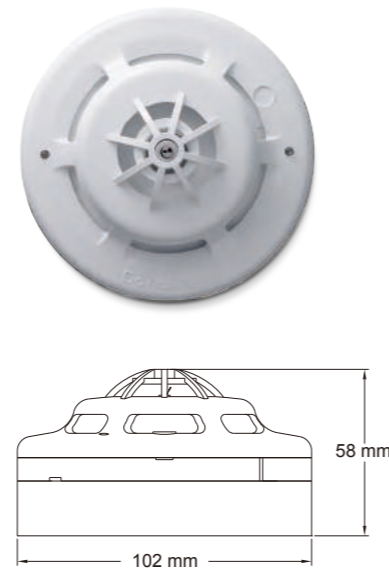
| | |
|-----------------|-----------|
| Model | AH-0316-S |
| Alarm Current | 35mA |
| Standby Current | 30μA |
| Voltage Range | 12V DC |
| Weight | 157g |

Order information (Resettable)

| | |
|-----------|----------------|
| AH-0316-S | + Relay Output |
|-----------|----------------|

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 |



AHMB-031

Multi-Purpose Mounting Base



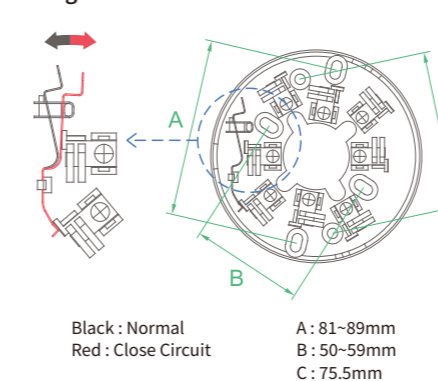
Design Characteristics

The detector base is designed for use on all AH-031 series fire detection devices. It has a built-in shorting spring for use when the detector head is removed, which will prevent an open circuit fault condition at control panel during maintenance.

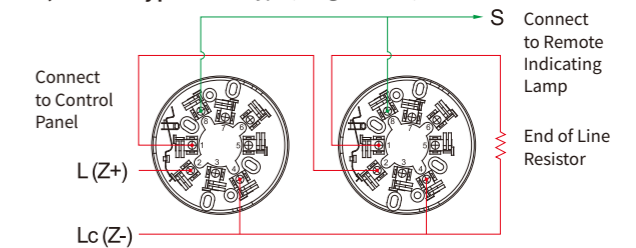
- Applies to model nos. AH-0311, AH-0315, and AH-0316.



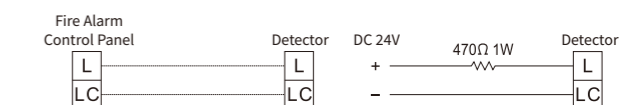
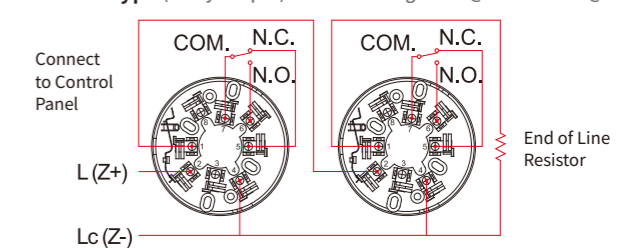
Diagram



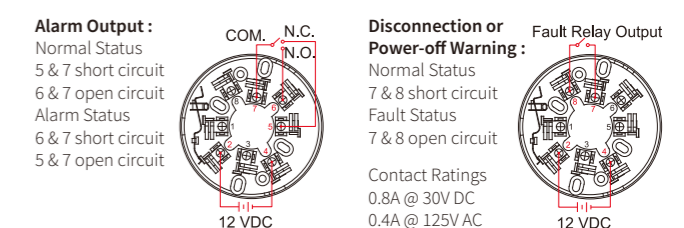
2, 3-Wire Type 3-Wire Type (see green line)



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



Resettable





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.
- 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.
- 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

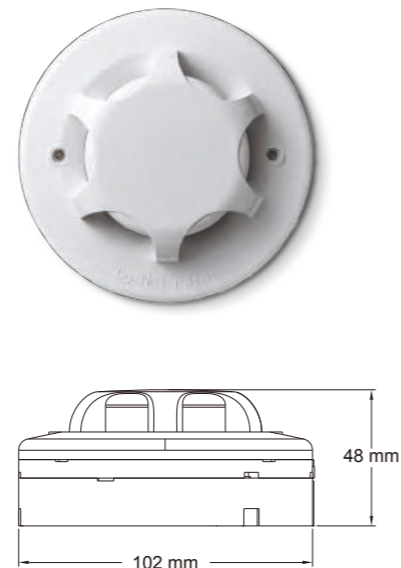
| Model | AH-0621-2 | AH-0621-3 | AH-0621-4 |
|------------------------------|-----------------------|-----------|-------------------------------|
| Alarm Contact | N/A | N/A | 0.8A @30V DC 0.4A @125V AC |
| Voltage Range | 12 ~ 30V DC | | |
| Alarm Current @24V DC 470Ω | 50mA | 59mA | 45mA |
| Standby Current @24V DC 470Ω | 140μA | | 25~75μA |
| 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 | 130g | 145g |
| 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-0621-3 | 3-wire with remote indicator output |
| AH-0621-4 | 4-wire with relay output |



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

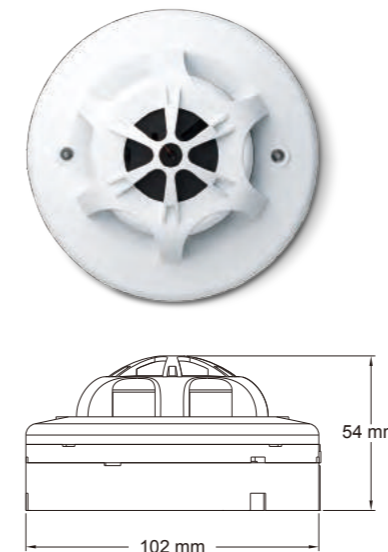
| Mode | AH-0625-2 | AH-0625-3 | AH-0625-4 |
|------------------------------|---|-----------|-------------------------------|
| Alarm Contact | N/A | N/A | 0.8A @30V DC 0.4A @125V AC |
| Voltage Range | 12 ~ 30V DC | | |
| Alarm Current @24V DC 470Ω | 40mA | 40mA | 45mA |
| Standby Current @24V DC 470Ω | 30 ~ 80μA | | |
| Sensitivity Setting | Comply to UL 268 | | |
| Thermal Setting | 57°C | | |
| Indicator | Standby: flash every 4 seconds Pre-alarm: flash every 2 seconds Abnormal: flash once every second | | |
| Ambient Temperature | 0°C ~ +37.8°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-0625-2 | 2-wire |
| AH-0625-3 | 3-wire with remote indicator output |
| AH-0625-4 | 4-wire with relay output |





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

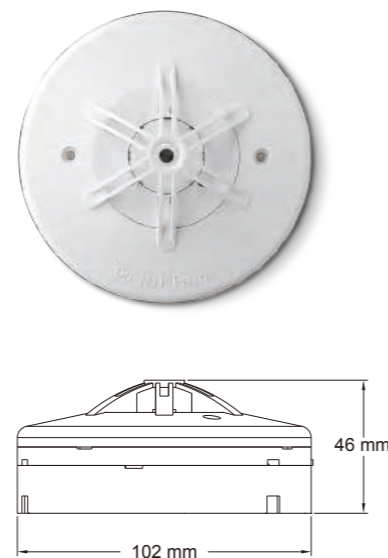
| Model | AH-0626-2 | AH-0626-3 | AH-0626-4 |
|------------------------------|-----------------------|-----------|-------------------------------|
| Alarm Contact | N/A | N/A | 0.8A @30V DC 0.4A @125V AC |
| Voltage Range | 12 ~ 30V DC | | |
| Alarm Current @24V DC 470Ω | 40mA | 40mA | 45mA |
| Standby Current @24V DC 470Ω | 70μA | | |
| Thermal Setting | 60°C | | |
| Ambient Temperature | 0°C ~ +37.8°C | | |
| Material | Fire-proof plastic | | |
| Dimensions | 102mm(Dia.) x 46mm(H) | | |
| Weight | 120g | 120g | 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

| | |
|-----------|-------------------------------------|
| AH-0626-2 | 2-wire |
| AH-0626-3 | 3-wire with remote indicator output |
| AH-0626-4 | 4-wire with relay output |



AH-9315

Combination Smoke and Heat Detector



Characteristics

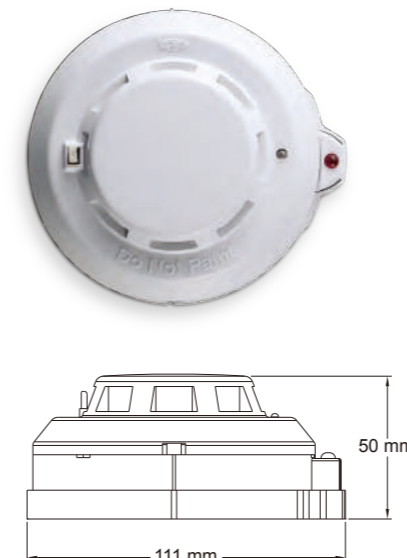
- Multi-purpose Design: when there is smoke or heat during pre-fire period, field situation will vary due to different environments. This combination design is to ensure that the pre-fire confirmation will not be affected by varying environments.
- Smoke gate has a special design to obscure the strong 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°C | | |
| Ambient Temperature | -10°C ~ +55°C | | |
| 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 |





AHR-871

Mechanical Rate of Rise Heat Detector

Characteristics

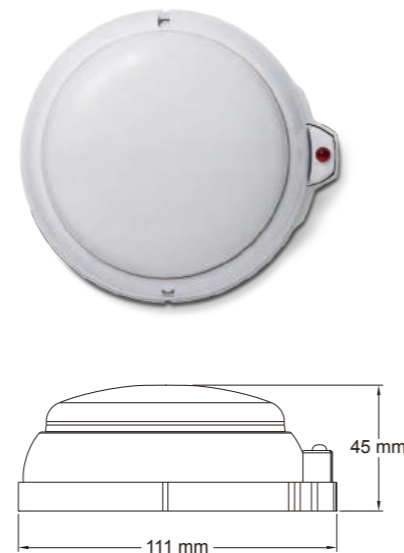
- Heat-sensing diaphragm can operate for unlimited number of times and is not affected by room temperature. The conducting parts use gold coating to avoid oxidation.
- Uses alloy air equalizer to avoid humidity and stabilize the ventilation function. Alloy itself has many micro-holes that can expel non-fire 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 |



AH-9920

Mechanical Fixed Temperature Heat Detector



Characteristics

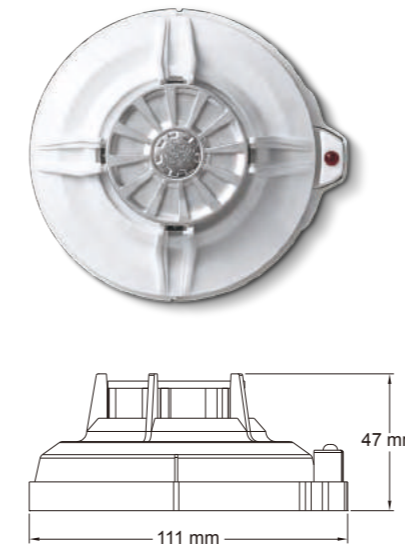
- This detector operates on the temperature differential sensing principle, with a UL approved sensor making mechanical contact. It is made of high quality material, providing excellent contact despite any environmental interference.
- This detector is suitable for locations with high temperatures differentials, 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 |





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

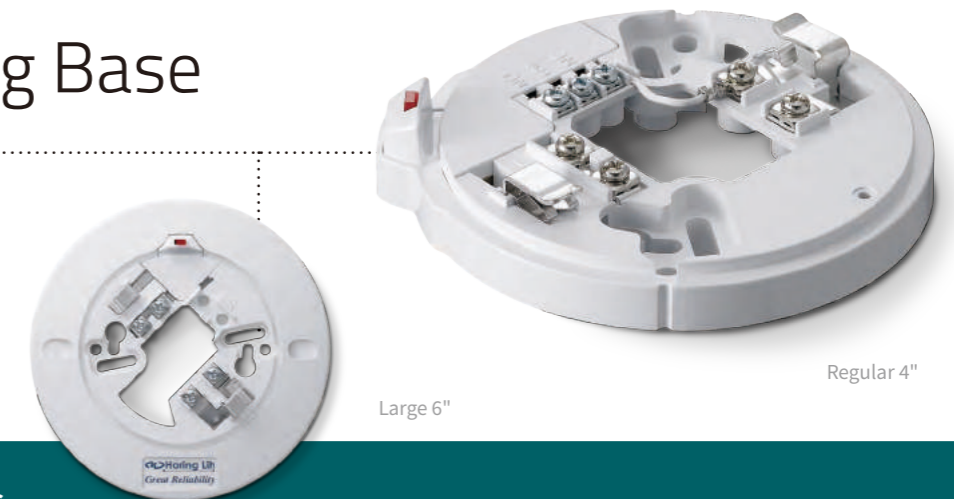
1. Install at obstruction-free places.
2. Avoid installing near mercury lamps, halogen lamps and sterilization lamps.
3. Avoid installing within sensitive range of welding sparks and radiation.

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 | | |



Mounting Base

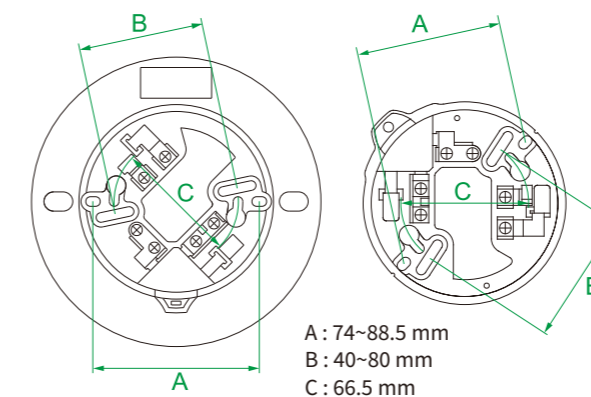


Large 6"

Regular 4"

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.
- Large 6" mounting base is basically designed to match the entire decoration design.
- Applies to model nos. AH-9315, AHR-871, AH-9920, and AH-0014.



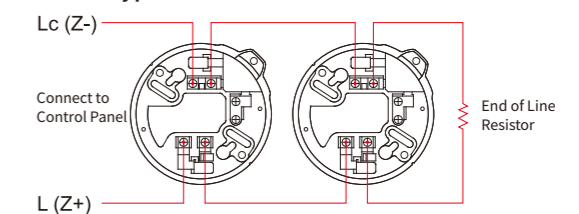
A : 74~88.5 mm
B : 40~80 mm
C : 66.5 mm

Order information

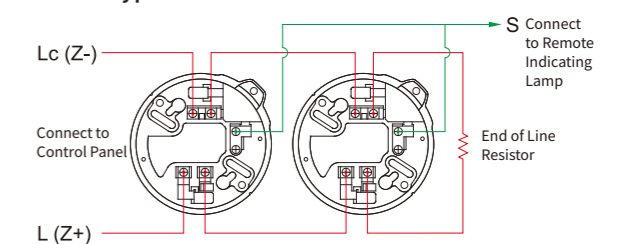
| Regular 4" | | | |
|------------|---------|---------|---------|
| Model | AHMB-L | AHMB-L3 | AHMB-L4 |
| Type | 2-wire | 3-wire | 4-wire |
| Large 6" | | | |
| Model | AHMB-62 | AHMB-63 | AHMB-64 |
| Type | 2-wire | 3-wire | 4-wire |



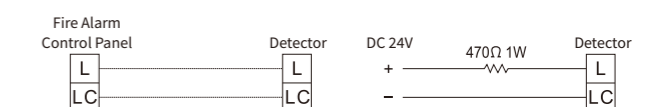
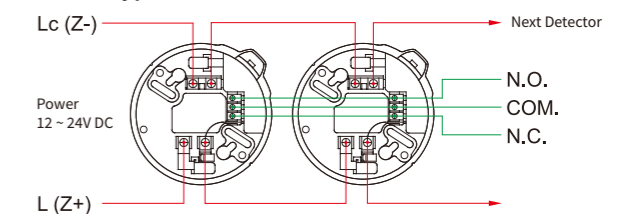
2-Wire Type (Regular)



3-Wire Type (Signal Transfer)



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



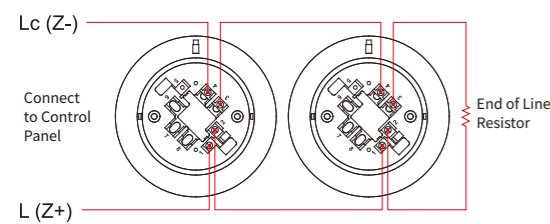


Implanted-Type Mounting Base

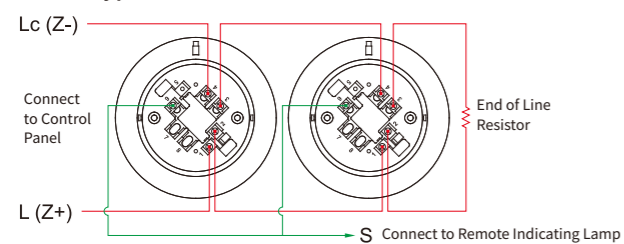
Design Characteristics

- This unique mounting base is set into the ceiling and it is designed to match a room's original decoration design and visual effect perfectly. Furthermore, it will make the entire decoration look even better.
- This base has an optional Power-off Warning feature to ensure that the system will operate normally.
- Applies to model nos. AH-9315, AHR-871, AH-9920 and AH-0014.

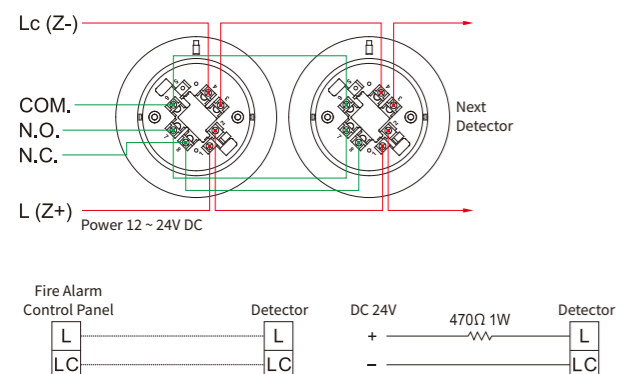
2-Wire Type (Regular)



3-Wire Type (Signal Transfer)



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



Order information

| Model | Features, Application |
|--------|--|
| AHMB-2 | 2-wire Apply to fire alarm control panel. |
| AHMB-3 | 3-wire Auxiliary for remote indicating lamp. |
| AHMB-4 | 4-wire 12~24VDC, optional one set of relay output. Apply to security system...etc. |

NQ12

Resettable Type Smoke Detector



Characteristics

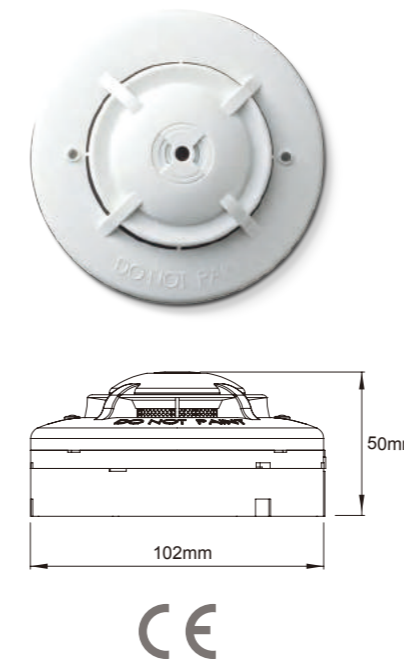
- Used widely in fire alarm systems or security systems.
- High accuracy IR diode sensor to detect the ambient smoke level more effectively.
- Several power regulators on PCB to stabilize the operation of detectors.
- New design on minified chamber makes so easy for maintenance.

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 |

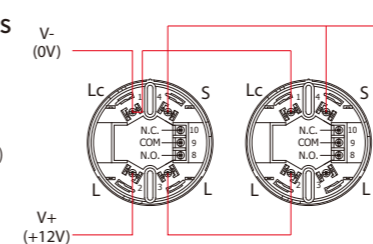
Order information

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



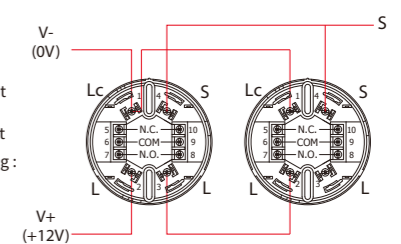
Wiring Diagram

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



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





NDKA1 NDKB1

Carbon Monoxide Detector

Description

Carbon Monoxide is as an invisible killer for its colorless, odorless, tasteless and highly toxic gas. It will reduce the oxygen in body's hemoglobin and cause damage to the brain. Our NDKA1 and NDKB1 are equipped with a precise and low power-consumption sensor. With high efficiency microprocessor-based analysis, it can be triggered under different carbon monoxide concentrations.

Characteristics

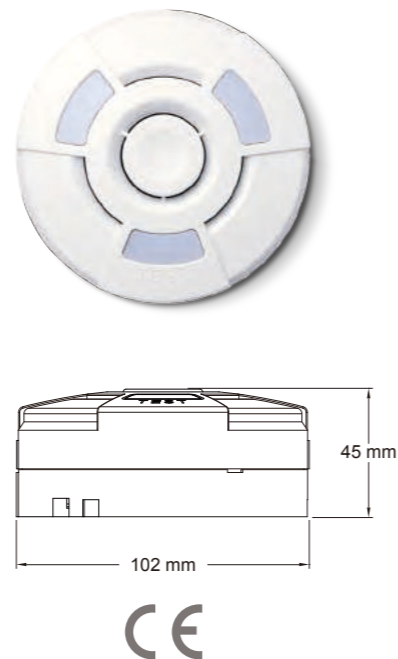
- Triple-color LED display with high brightness enables viewers to easily identify the status of detector.
- Green LED to confirm the unit is under normal operation.
- Two modes of the Alarm LED in visible and audible warning to easily identify the status.
- Three modes of the Fault LED in visible and audible warning to easily identify the causes.
- Test button for alarm simulation.
- A set of relay output: COM. N.O. N.C. (NDKB1)

Applications

- **Home:** The heating installation such as gas water heater or stove is easy to combust incompletely and then produces CO.
- **Parking lots and garage:** the scooter/cars or engine machine exhausts fumes with high concentration of CO in an enclosed space.
- **Fire:** Smolder is a kind of incomplete combustion. It often occurs before and after the fire as a disaster and produce a large amount of CO.

Specifications

| Model | NDKA1 | NDKB1 |
|---------------------|--|------------|
| Type | Standalone | System |
| Power Source | 3V DC | 12-24V DC |
| Standby Current | 24uA | 800uA |
| Alarm Current | under 65mA | under 40mA |
| Sensitivity | 50 ppm: 60~90 min. 100 ppm: 10~40 min. 300 ppm: 0~3 min. | |
| Alarm Sound | 85dB/3M and above | |
| Ambient Temperature | -10°C ~ +55°C | |
| Material | Fire-proof plastic | |
| Color | White | |
| Dimensions | 102 mm(Dia.) x 45mm(H) | |
| Weight | About 150g | |



AH-0822

Gas Detector

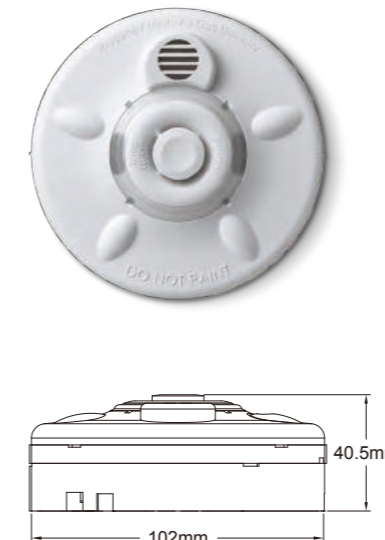


Characteristics

- 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 | | | |





NQ3F

Single Station Heat Detector

Characteristics

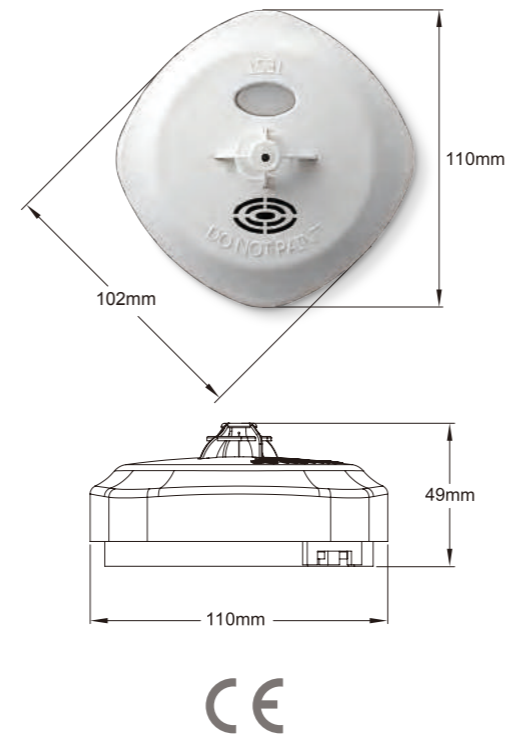
- Voice warning in English.
- Low power consumption, powered by 3V long-life lithium batteries for 10 years.
- This detector is suitable for locations with high temperatures differentials, such as places (kitchen, restaurant and boiler house) where there is constant use of heat.
- Simple test method: 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.

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 |



NQ9F

Single Station Heat Detector

Characteristics

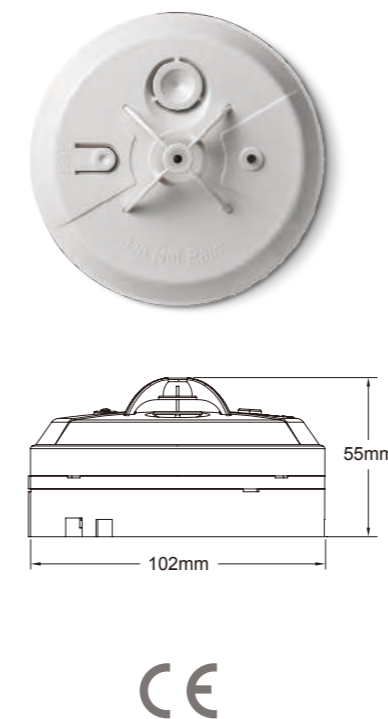
- Detector has passed strict quality control and repetitive testing; hence its quality is durable and highly reliable.
- Simple test method: Press test button to hear the alarm sound and confirm the unit is in normal condition.
- Easy installation: Install directly to proper location without any wiring.
- 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 |





NQ3S

Single Station Smoke Detector

Characteristics

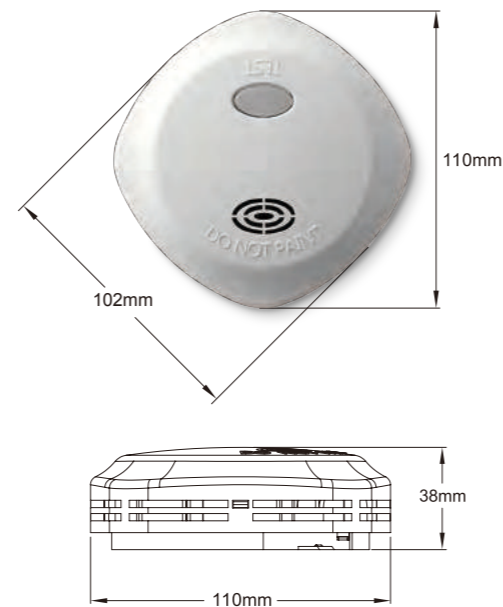
- Voice warning in English.
- Low power consumption, powered by 3V long-life lithium batteries for 10 years.
- Simple test method: Press test button to hear the alarm sound and confirm the unit is in normal condition.
- Easy installation: Install directly to proper location without any wiring.
- Optional magnetic testing device makes maintenance easy and simple.

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 |



NQ9S

Single Station Smoke Detector



Characteristics

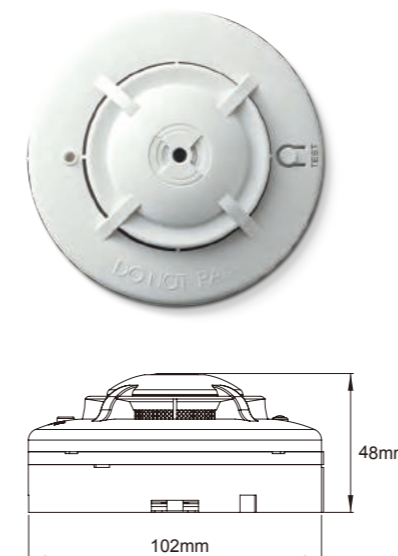
- New design on minified chamber makes so easy for maintenance.
- High luminous LED for light guiding design.
- Detector has passed strict EMC test, which greatly eliminates false alarms caused by interference from nearby sources.
- Simple test method: Press test button to hear the alarm sound and confirm 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 |



EN14604



506f/01

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.

AH-03127

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 | 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 |



Specifications

| Model | AH-03127-S | AH-03127-BS |
|---------------------------------------|------------------------|-------------------------|
| Voltage | 24V DC | |
| Current Consumption 24V DC (MAX) | 35mA | 40mA |
| Sound Output 24V DC dB (A) at 1 meter | Max. 114 | |
| 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 |

Order information

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



AH-0817

Resettable Manual Call Point

Features

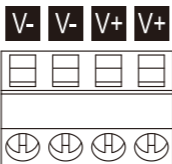
- Red LED with current limiting resistor.
- Three different resistance selectable (270, 470, 680 ohm).
- Choice of red, yellow, blue or green finish also available for custom-made.
- Clear protection cover is also available (optional).

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 |



Wiring



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

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.



CE listed

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 |





AH-9717



AH-9717 with base

AH-9717

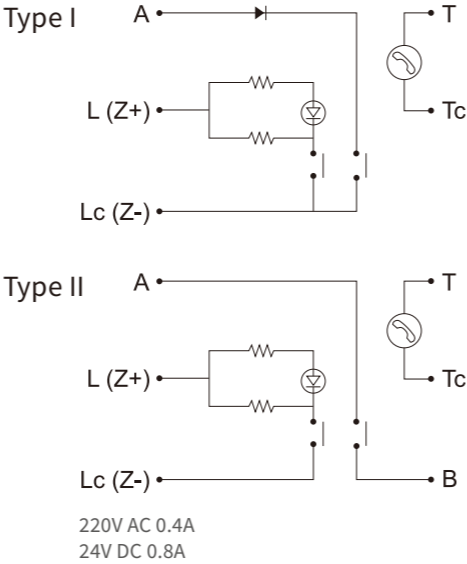
Manual Call Point

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 |



NQ618

NQ618 NQ418

Fire Alarm Bell



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 |





AH-0218

AH-0218 AH-9719

Fire Alarm Bell & Indicating Lamp



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 |



AH-03128 AH-07128

Detector Test Device



AH-03128



AH-07128

Characteristics

- For testing heat and smoke detectors.
- Extension pole is very flexible. It has five sections and can expand from 1.44m to 5m.

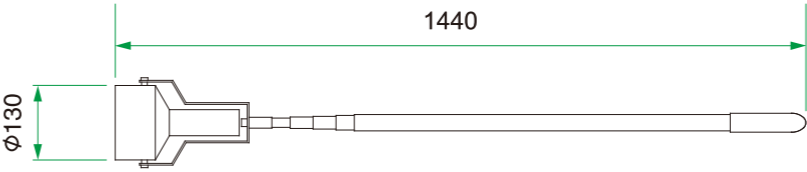
AH-03128 Detector Testing and Removal Device

- Removal device is designed for AH-031 series detector. (AH-0311, AH-0315 and AH-0316)
- 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 500 times.

AH-07128 Detector Testing Device

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

Dimensions of Test Device AH-03128 : mm



AH-03151



Removal
AH-07152



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

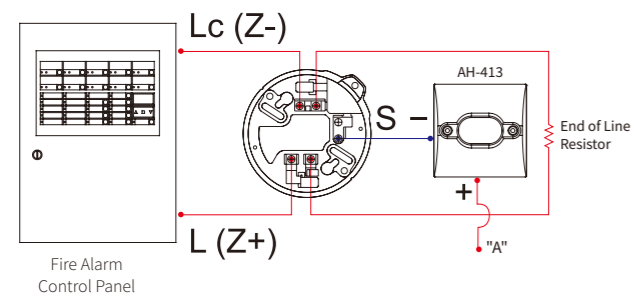
- Outstanding look from the design of art
- Low current consumption
- High intensity LED for quick identification
- Larger indicating lamp
- Applicable for 12VDC and 24VDC
- Flash light is available for optional feature

Specifications

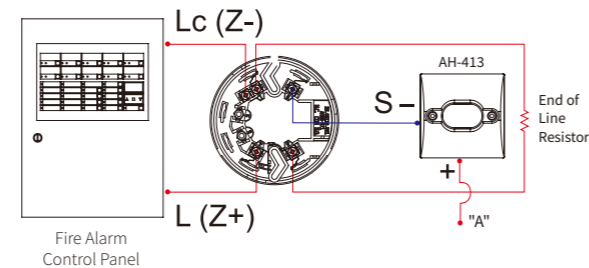
| Model | AH-413 |
|-----------------------|-------------------------|
| Power Source | 12/24V DC |
| Alarm Current @24V DC | 15mA |
| Standby Current | N/A |
| Ambient Temperature | -10°C ~ +55°C |
| Material | Fire-proof plastic |
| Color | White surface/ Red LED |
| Dimensions | 85mm(H)x85mm(W)x23mm(D)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



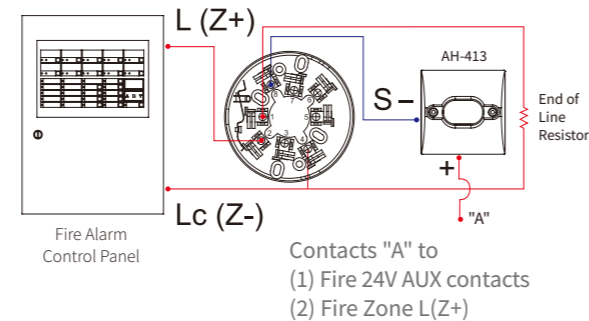
Wiring Diagram



AHMB-071



AHMB-031



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

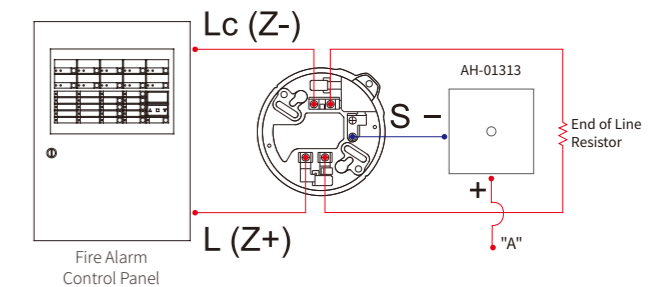
- Outstanding look from the design of art
- Low current consumption
- High intensity LED for quick identification

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





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 CE
pending



QA12 & 5-QA12

Fire Alarm Control Panel



5-QA12



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.

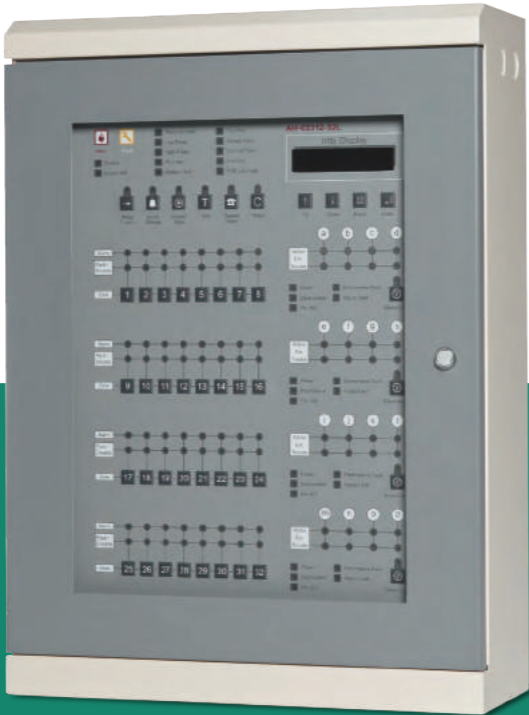
Specifications

| 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

AH-03312

Fire Alarm Control Panel



32 Zone



8 Zone



4 Zone



AH-04224 Annunciator

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.

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 |



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 | | |



Multi-Hazard Suppression Systems



AH-03233



QSP-32



QSP-120 1 cross-zone



QSP-120 5 cross-zone

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 | 1 cross-zone: 24VDC 4Ah 5 cross-zone: 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 cross-zone : 350 (H) x 400 (W) x 130 (D) 5 cross-zone : 550 (H) x 400 (W) x 130 (D) |
| Color | Ivory |

