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.

CE

QA16
Addressable Fire
Alarm Control Panel

QA01
Addressable Photoelectric
Smoke Detector

QA05
Addressable Combination
Smoke & Heat Detector

QA06
Addressable Heat Detector

HORING LIH INDUSTRIAL CO., LTD.

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.
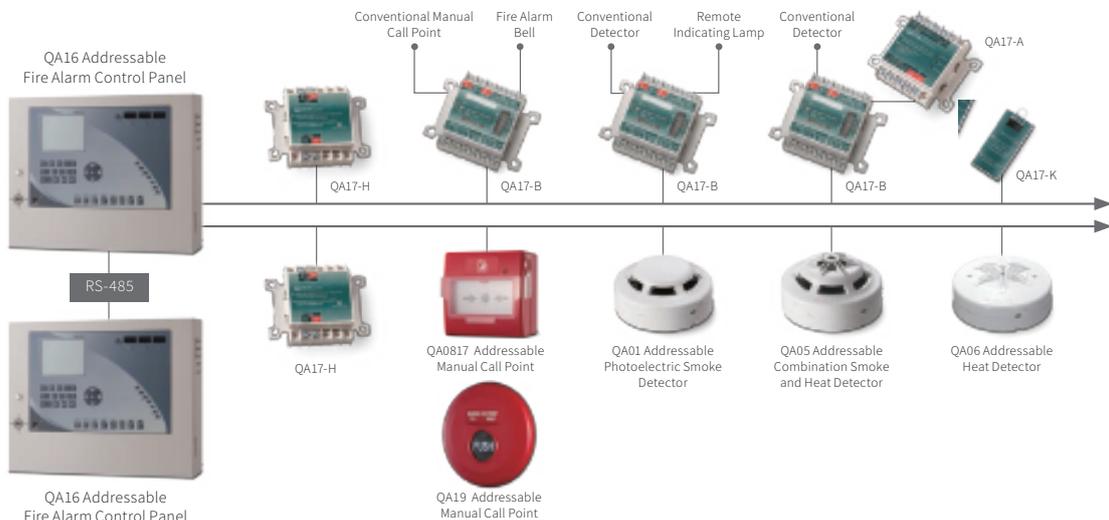
Addressable Detectors

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.

Specifications

Model	QA16
Power	220V AC 50/60Hz *Others also available
Battery Capacity	24V DC 4Ah
Charging Voltage, Current	26V DC 100~1000 mA *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	DC 26V 6mA		
Standby Current	DC 26V 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		

Ⓗ HORING LIH INDUSTRIAL CO., LTD.

QA Series

Addressable Fire Alarm Systems

QA17-A

QA17-B

QA17-H

QA17-K

QA19

QA0817

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

QA16 Addressable
Fire Alarm Control Panel

QA0817 Addressable
Manual Call Point

QA01 Addressable
Photoelectric Smoke
Detector

QA05 Addressable
Combination Smoke
and Heat Detector

QA06 Addressable
Heat Detector

QA19 Addressable
Manual Call Point

HORING LIH INDUSTRIAL CO., LTD.

CE

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	26 V 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

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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

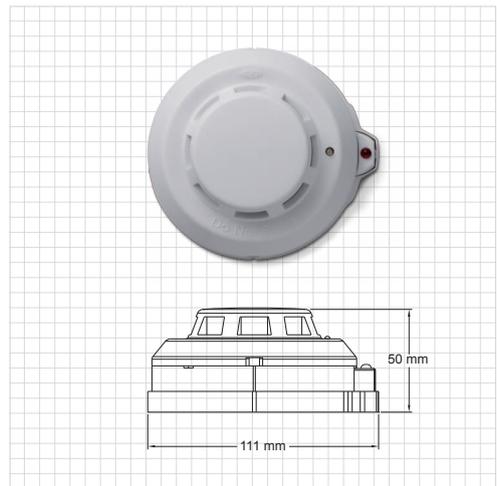| Model	5-QA12	QA12
Power	220V AC, 50/60Hz *Others also available	
Battery Capacity	24V/4Ah	
# of heat detectors connected	No limit *Except electronic-type	
# of smoke detectors connected	30/zone *Horing Lih manufactured	
End of Line Resistor	10kΩ *One per zone	
Material	1.2mm steel plate	
Color	Pearl 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

AHS-871

Photoelectric Smoke Detector

Characteristics

■ Detector has a monitoring LED that operates about every 16 seconds (flash) during standby status. When there is smoke, the detector will issue fire signal after 16 consecutive confirmations. (every 0.3 second) If any dust causes flashing or an intermittent signal, it will return to normal status after 32 confirmations.

■ The coating of terminal contacts meets the Rohs and provides better results on corrosion and conductive.

■ Each detector has added specific components that will effectively isolate interference from electromagnetic fields and lightening strike.

■ All detectors use high-density steel for the contacting plate material.

Approvals: EN54 (LPCB 506a/01) CE

Specifications			
Model	AHS-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	Max.30mA		
Standby Current	20 ~ 30µA (Loop response under 75µA)		
Sensitivity Setting	Comply to EN 54		
Ambient Temperature	-10℃ ~ +55℃		
Material	Fire-proof plastic		
Dimensions	111mm(Dia.) x 50mm(H)		
Weight	About 170g		
Color	White		

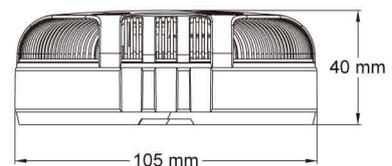| Effective alert area	
Building Height	Area Covered
Under 4M	150 M^2
4 ~ 20M	75 M^2

50 mm

111 mm

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.

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

40 mm

105 mm

Effective alert area

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

CE

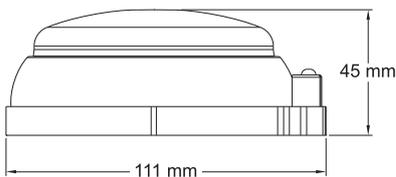**HORING LIH INDUSTRIAL CO., LTD.**

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 glass tube to avoid humidity and stabilize the ventilation function. Glass tube also 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.

45 mm

111 mm

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

C E

HORING LIH INDUSTRIAL CO., LTD.

AH-9920

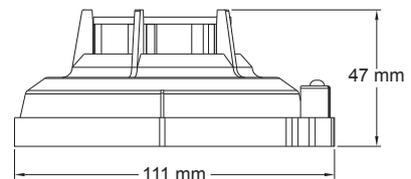Mechanical Fixed Temperature Heat Detector

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

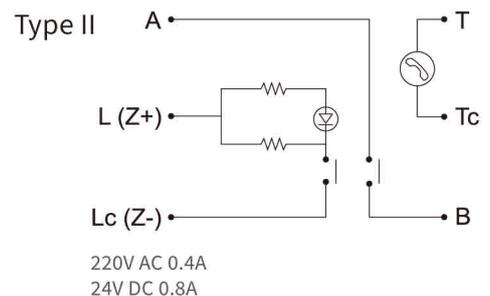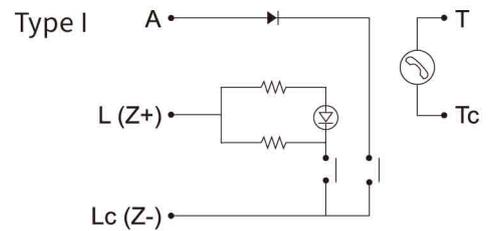**HORING LIH INDUSTRIAL CO., LTD.**

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.

AH-9717

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

CE

Type I

Type II

220V AC 0.4A
24V DC 0.8A

HORING LIH INDUSTRIAL CO., LTD.

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

HORING LIH INDUSTRIAL CO., LTD.

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

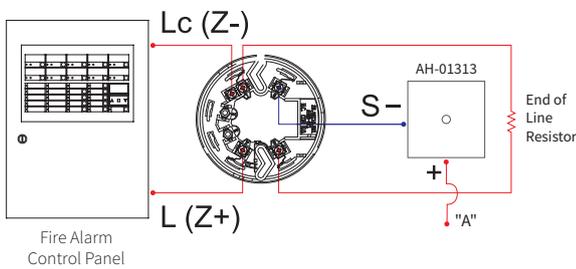**HORING LIH INDUSTRIAL CO., LTD.**

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.
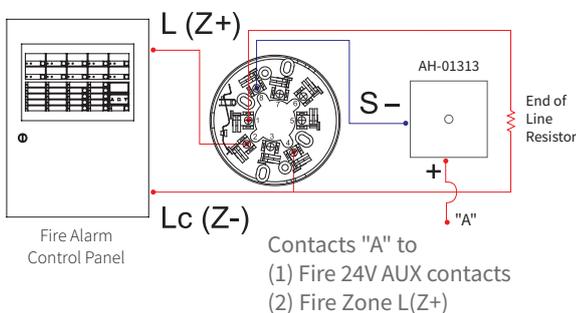
Characteristics

• Outstanding look from the design of art

• Low current consumption

• High intensity LED for quick identification

AHMB-071

Lc (Z-)

AH-01313

S −

End of Line Resistor

+

"A"

L (Z+)

Fire Alarm Control Panel

AHMB-031

L (Z+)

AH-01313

S −

End of Line Resistor

+

Lc (Z-)

"A"

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

Fire Alarm Control Panel

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

Lc (Z-)

AH-01313

S −

End of Line Resistor

+

L (Z+)

"A"

Fire Alarm Control Panel

HORING LIH INDUSTRIAL CO., LTD.

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
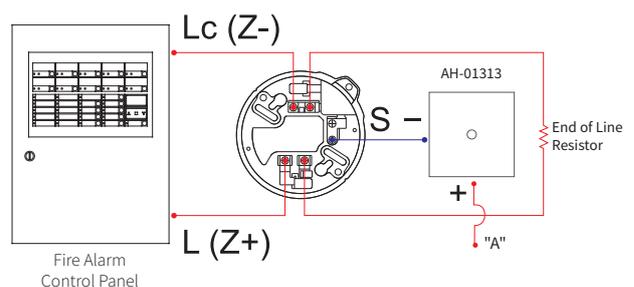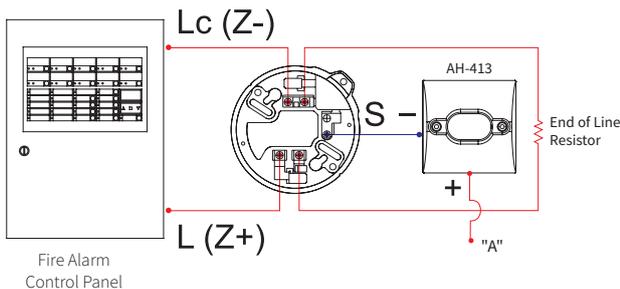• High intensity LED for quick identification
• Larger indicating lamp
• Applicable for 12VDC and 24VDC
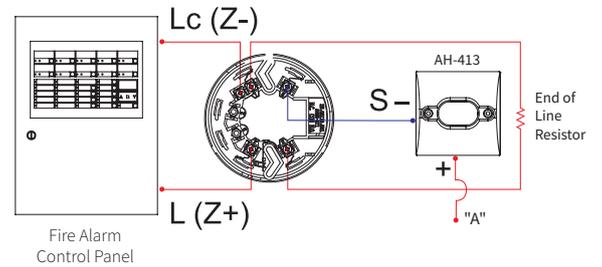• Flash light is available for optional feature

Specifications

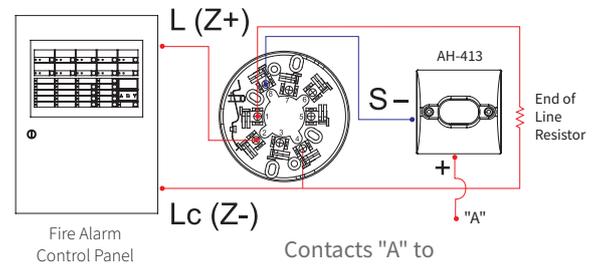| Model	AH-413
Power Source	12/24V DC
Alarm Current @24V DC	15mA
Standby Current	N/A
Ambient Temperature	-10°C ~ +55°C
Material	Fire-proof plastic
Color	White surface/ Red LED
Dimensions	85mm(H)x85mm(W)x23mm(D)
Weight	About 28g

CE

AHMB-071

Fire Alarm Control Panel

Lc (Z-)
L (Z+)
AH-413
S −
+
"A"
End of Line Resistor

AHMB-031

Fire Alarm Control Panel

L (Z+)
Lc (Z-)
AH-413
S −
+
"A"
End of Line Resistor

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

Wiring Diagram

Fire Alarm Control Panel

Lc (Z-)
L (Z+)
AH-413
S −
+
"A"
End of Line Resistor

HORING LIH INDUSTRIAL CO., LTD.

AH-03128
AH-07128

Detector Test Device

AH-03128

AH-07128

Characteristics

• For testing heat and smoke detectors.

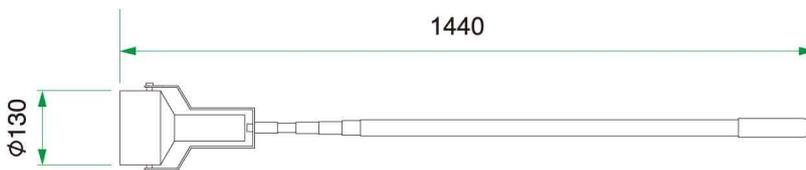• Extension pole is very flexible. It has five sections and can expand from 1.44m to 5m.

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

1440

Ø130

Removal
AH-07152

AH-03151

HORING LIH INDUSTRIAL CO., LTD.