



SIH-AM

IONIZATION SMOKE DETECTOR

Low profile meets a variety of installation requirements.

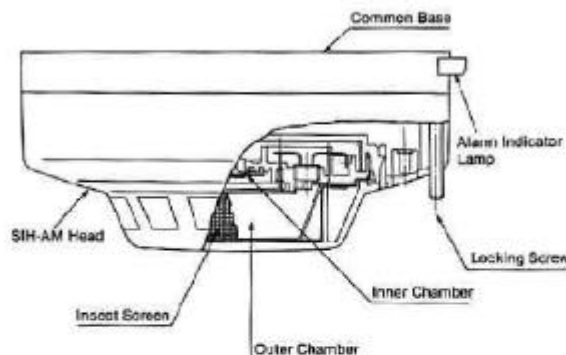
Effective and economical fire prevention has always been a priority throughout industry. Hochiki's newly designed ionization smoke detector, SIH-AM, enhances any fire prevention system. The smart design compliments the high-performance of the SIH-AM. This means the new low profile design meets a wide range of installation requirements and is highly reliable and stable under extreme conditions.

Many outstanding features

1. The Hochiki's SIH-AM has a unique low profile design which can comply exactly with the interior designer's requirements and /or customer needs without detracting from the appearance of the ceiling.
2. A complete functional test is provided through a special circuit incorporated within the smoke chamber.
3. A unique Hochiki's test feature allows the smoke detector to be tested without smoke, instead a magnet is used.
4. The Hochiki SIH-AM's exceptional capabilities result from incorporating a single radioactive source and dual chamber for stable operations under extreme environmental conditions including atmospheric changes.
5. The unit is also designed to provide, trouble-free operation in locations subject to strong external vibrations and voltage fluctuations.



6. One of the many special design features incorporated is the overall construction aimed at maximizing reliability under conditions such as high humidity which causes unreliable functioning in conventional detectors.
7. Many units can be connected to a 2-wire loop circuit because the high impedance circuitry of the Hochiki's SIH-AM keeps power consumption very low.
8. The same Hochiki installation pole can be used with an adaptor for the new generation low profile series. Testing, installation and removal become an easy task with Hochiki.



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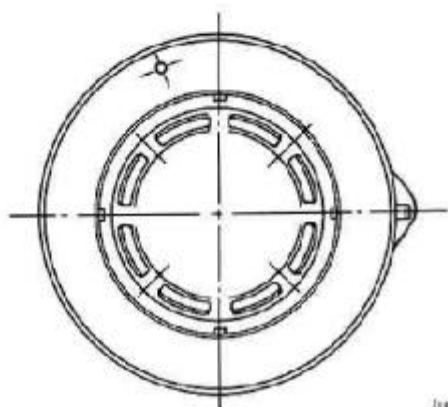
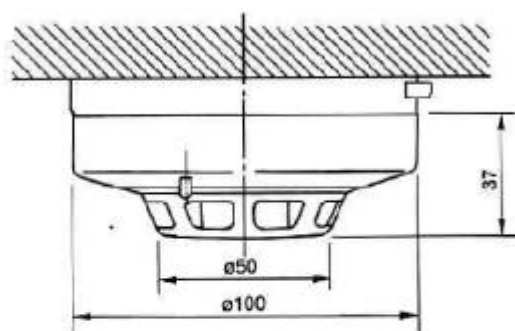
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(unit: mm)

Operation

The Hochiki's SIH-AM Ionization Smoke Detector has two sampling chambers, an outer ionization chamber and an inner ionization chamber. Smoke or invisible combustion gasses can freely penetrate the outer chamber, but the inner chamber is virtually closed to prevent easy entry. With both chambers ionized by a radioactive source (AM241), very small current flows in the circuit. The presence of visible smoke or invisible gasses greatly influences the current flow in the outer chamber to change the voltage ratio between chambers. This difference is then amplified inside the detector and transmitted to the fire alarm control unit.

Applications

The unique features enable Hochiki's SIH-AM to be used in any location where temperature, humidity and/or noise would combine to make conventional detectors inappropriate. The units can be connected to a fire alarm control panel using a 2-wire loop circuit with end-of-line resistor or using a 4-wire loop circuit. In addition, other types of detectors can be used on the same line because the Hochiki common base is interchangeable.

Specifications

- Radioactive source: Americium 241 0.5 μ Ci
- Line voltage
 - Nominal rated voltage: ... 24 VDC
 - Working voltage: 15.0 ~ 30.0 VDC
- Supervisory current: 25 μ A (AT 24V, 25°C)
- Surge current: 200 μ A (AT 24V, 25°C)
- Maximum alarm trip current: . 250 mA (AT 25°C)
- Minimum alarm trip current: . 6 mA (AT 25°C)
- Ambient temperature: -20°C ~ +60°C
- Test feature: Use magnet
- Mounting Holes: 48 ~ 74 mm in pitch
- Weight: 83g without base
- Color: White

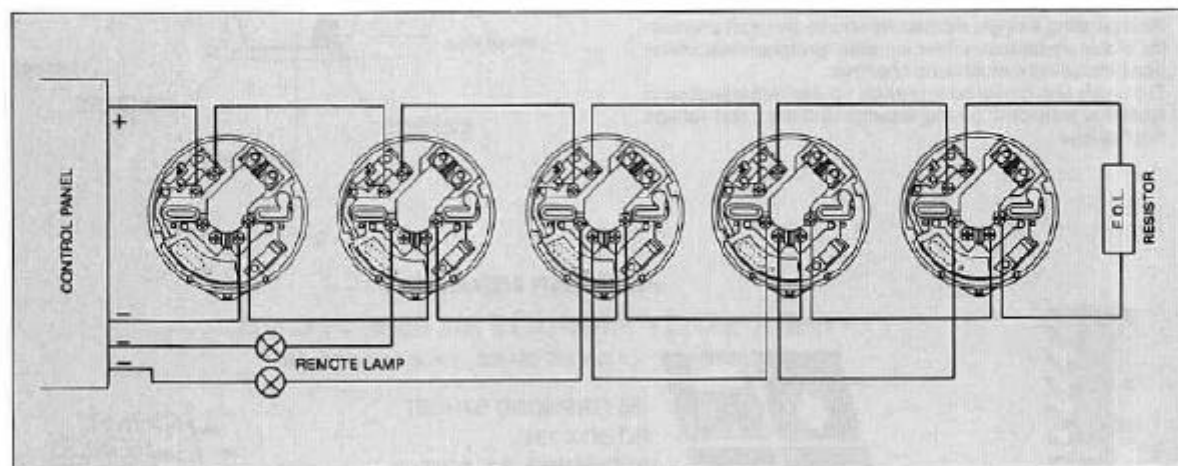
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SSL Listing Number AFP 802
 AFP 601

Typical wiring diagram

Model YBC-R/3A (without lamp): Wiring should be made as shown. Model YBF-RL/4AH4M (with lamp): In this arrangement, any detector in the group will operate the alarm indicator lamp.

Refer to the diagram for wiring detectors with and without a remote lamp. In the case of disconnection-wiring, an end-of-line resistor must be wired to the last base in the line.



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