

Rate-of-Rise Heat Detector YHR-871

Operating Principle

When the temperature around the detector rises rapidly and reaches the pre-fire standard, internal expansion presses the sensing diaphragm, connecting the metal contacts to send an alarm signal to the fire alarm control panel. Under normal room temperature variations, an automatic pressure equalizer functions to prevent false alarms.

Features & Properties

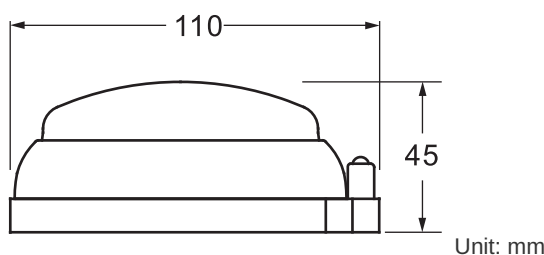
- The heat-sensing diaphragm can operate continuously over 1,000 times without being affected by the environment, maintaining long-term stability. The processed contact points ensure reliable conductivity and oxidation resistance.
- Utilizes an alloy stone air equalizer for stable pressure regulation unaffected by humidity. The alloy stone contains micro-capillaries that easily vent non-fire hot air to prevent false alarms.
- Manufactured under strict quality control with fully automated computer-controlled mechanical setting, automatic adjustment, and repeated testing under constant temperature and humidity, ensuring uniform high reliability from the 1st to the 1,000,000th unit.
- Equipped with a water discharge mechanism to prevent false alarms caused by ceiling condensation or conduit leakage entering the detector.



Specifications

Type	Type 2
Operating Temp.	Room Temp. + 30°C within 30s
Operating Current	DC 24V 25mA
Polarity	Non-polarized
Ambient Temp.	0°C ~ +50°C
Relative Humidity	10% ~ 95% non-condensing
Material	Fireproof Plastic
Dimensions	110mm (Dia.) x 45mm (H)
Weight	Approx. 130g
Color	White

Dimensions Diagram



Effective Coverage Area

Height Above Floor	Building Construction	
	Fireproof Building Materials	Ordinary Building Materials
Under 4 meters	70 m ²	40 m ²
4 meters to under 8 meters	35 m ²	25 m ²

