Rate-of-Rise Heat Detector

S-302



Common Base Compatible

Operation Theory

When detector's ambient temperature rises rapidly and has reached the pre-fire standard (operating temperature), inside of detector will inflate and then press the sensing diaphragm to conduct the metal contact. Thus, the fire signal will be sent to control panel. Detector itself has auto balance function when temperature changed rapidly, so false alarm wouldn't happen.

Construction and Characteristics

- Heated sensing diaphragm can oparate consecutively for unlimited times, not effected by temperature, especially the conducting part use gold coating to avoid oxidation.
- Use alloy air equalizer to avoid humidity and stable the ventilate function. Alloy itself has many micro-holes that can expel non-fire heat to avoid false alarm.
- This detector has passed strict quality control by automatic test. To process auto mechanical setting for auto adjustment and repetitious test under stable temperature and humidity condition by computer control. Thus, the quality reliability from the first detector produced to the million's are consistency.
- With accumulated water discharger to eliminate leakage of water from the distributing pipe and ceiling, which may leak into the detector and cause false alarm.

Specification

Model	S-302		
Type	2-wire	3-wire	4-wire
Alarm Contact	N/A	N/A	0.8A @ 30VDC 0.4A @ 125VAC
Alarm Temperature	Comply to EN54, CNS		
Voltage Range	12 ~ 30VDC		
Alarm Current	25mA		
Ambient Temperature	0°C ~ +55°C		
Material	Fire-proof plastic		
Dimensions	102mm (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