

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.

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 detector produced to millionth.

Specification

Model	S-302		
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