

# Fixed Temperature Detector

## S-318



**Common Base Compatible**

### Operation Theory

When detector's ambient temperature has reached the pre-fire standard (operative temperature), sensor's dual metal plate will bend for conduction (dual metal are two connected metal with different inflation factors, it will bent by inflation when heat is up to certain degree) and issue the signal to control panel.

### Construction and Characteristics

- This detector is operating by temperature differential sensing theory, with UL approval sensor to connect with metal. It is made by high quality material, excellent contact to enhance its ability to overcome the bad environment.
- Through the professional design, the heat collector can accelerate its response rate after being heated, with the protective device to avoid abnormal function caused by distortion, bumping and dropping in order to increase the stability of product.
- 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.
- This detector is applicable to the location of high temperature or bigger change on temperature differential, such as places ( kitchen, restaurant and boiler house ) where there is constant use of heat.
- Its local is completely sealed ; function would not effected by humidity, dust and insects.
- This detector has passed strict quality control and repetitious test ; hence its quality is stable and high reliability.

### Specification

Model	S-318		
Type	2-wire	3-wire	4-wire
Alarm Contact	N/A	N/A	0.8A @ 30VDC 0.4A @ 125VAC
Thermal Setting	70 °C or other selections		
Alarm Temperature	Comply to EN54, CNS		
Voltage Range	12 ~ 30VDC		
Alarm Current	25mA		
Ambient Temperature	-10 °C ~ +55 °C		
Material	Fire-proof plastic		
Dimensions	102mm ( Dia. ) x 47mm ( H )		
Weight	About 100g		
Color	White		

### Effective Alert Area

Construction / Height	Under 4M	4M ~ 8M
Fire-proof Building	60 M <sup>2</sup>	30 M <sup>2</sup>
Ordinary Building	30 M <sup>2</sup>	15 M <sup>2</sup>