

# Photoelectric Smoke Detector

## S-314



## Common Base Compatible

### Operation Theory

The infrared light beam from Transmitter intersect the smoke particles will cause the light spread to all directions. When receiver has sensed the light, it will send signal to control panel for fire alarm status as soon as the density of smoke reaches pre-determined alarm level.

### Construction and Characteristics

- Electronic circuit are mainly use ONECHIP HIBRID IC and SMT technology, low profile design, low power consumption, high precision and stability.
- Transmitter projects beam signal every 3 seconds to check any smoke caused by real fire. When smoke density reaches the preset standard, receiver will confirm the signal for 16 consecutive times. Control panel will then receive the fire signal after confirmation is made.
- Insect guard is made of radius 0.5mm stainless steel to prevent the invasion by insects, decrease fault alarm. Besides, stainless steel has great discharge effect on electrostatics.
- Smoke gate has a special design to obscure the strong light effectively and lead smoke comes in easily. Steam will not stay on the insect guard screen to cause the false alarm.
- Monitoring LED is also available on model ( AH-0131 )

### Specification

Model	S-314		
Type	2-wire	3-wire	4-wire
Alarm Contact	N/A	N/A	0.8A @ 30VDC 0.4A @ 125VAC
Operating Sensitivity	Comply to UL268, EN54, CNS		
Operating Current	DC 24V under 30mA		
Monitoring Current	Under 75μA		
Ambient Temperature	-10 °C ~ +55 °C		
Relative Humidity	10 ~ 95%		
Material	Fire-proof plastic		
Dimensions	102mm ( Dia. ) x 50mm ( H )		
Weight	About 170g		
Color	White		

### Effective Alert Area

Building Height	Under 4M	4 ~ 20M
Area Covered	150 M <sup>2</sup>	75 M <sup>2</sup>