



Photoelectric Smoke Detector

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 has a radius 0.5mm it can prevent the invasion by insects, decrease fault alarm. Besides, it also 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	AH-8321		
Type	2-wire , 3-wire , 4-wire		
Alarm Contact	N/A	N/A	0.8A @30V DC 0.4A @125V AC
Voltage Range	12 ~ 30 VDC		
Alarm Current	35mA	35mA	30mA
	@24V DC 470Ω		
Permissible Current	185mA		
Standby Current	Under 30μA		
Sensitivity Setting	Comply to UL268, EN54, CNS		
Ambient Temperature	-10°C ~ +55°C		
Material	Fire-proof plastic		
Dimensions	102mm(Dia.) x 50mm(H)		
Weight	About 170g		
Color	White		

Effective Alert Area

Building Height	Area Covered
Under 4M	150 M ²
4 ~ 20M	75 M ²