

UV FLAME DETECTOR

Model: SKH047MF



Description

The SKH047MF is a highly sensitive and compact UV Flame Detector certified with FM Approval.

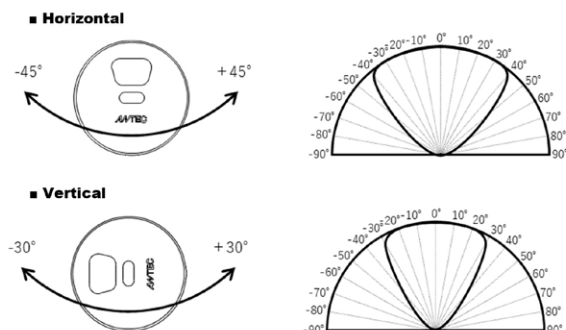
Designed to rapidly detect ultraviolet radiation (UV-C, 185 nm to 260 nm) emitted from flames, it incorporates proprietary technology that isolates flame UV from sunlight and ambient illumination to minimize false alarms.

Featuring a dual LED status indicator, voltage alarm output, and DIP-switch configurable timer settings, the SKH047MF is ideal for reliable indoor flame monitoring.

Applications

- Indoor flame monitoring and fire prevention
- Combustible chemical and material storage facilities
- Manufacturing and processing plants
- High-value asset protection
- Paper & Hygiene Product Warehouses
- EV & Lithium-ion Battery Manufacturing Lines

Angle of view



Features

- **High-Sensitivity UV Detection:** Operating wavelength range of 185 nm to 260 nm.
- **FM Approval Certified:** Complies with FM 3260:2021 standards.
- **False Alarm Reduction:** Proprietary UV separation technology effectively distinguishes flames from sunlight.
- **Ultra-Compact Design:** World's smallest class UV flame detector ($\Phi 72.8$ mm $\times$ H 34.5 mm, approx. 75 g).
- **Status LED Indicators:** Blue LED for standby, Red LED for flame alarm.
- **IP64-Compliant with Splash & Dust Standards**

Specifications

Specification	Details
Model Name	SKH047MF (FM Approved)
Input Voltage	DC 9V – 24V
Wiring	4-Wire (2 Power, 2 Output)
Current Consumption	Standby: ≤ 35 mA / Detection: ≤ 60 mA (@12VDC)
Detection Spectrum	UV Wavelength 185nm – 260nm
Operating Temp Range	-10°C to +60°C (Non-condensing)
Detection Range & Speed	50 Meters in 4 Seconds (Tested: 33 $\times$ 33cm N-heptane fire)
Field of View (FOV)	Horizontal: 90° ($\pm 45^\circ$) / Vertical: 30° ($\pm 15^\circ$)
Detection Delay Timer	Factory Default: 4s (Fixed / FM compliant)
Flame Alarm Output	Voltage Output (5V Normal / 0V Alarm, white cable)
Software Fault Output	Open Collector Output (Software fault:OFF, requires a relay)
Alarm Hold Duration	Hold time: approx. 30 seconds
Dimensions	$\Phi 72.8$ mm $\times$ 34.5 mm (with mounting spacer)
Weight	Approx. 75g (including standard wiring)
Housing material	Flame-Retardant ABS Plastic (UL94 V-0), IP64-compliant with Splash & Dust Standards
Installation	Indoor Use Only
Manufactured by	ANTEC Co., Ltd.
Country of Origin	JAPAN

Optional Tester



Model:UV3 , UV Transmitter Unit
Testing range: 5-7m (to the UV sensor)
Power: AAA Battery x 4 pcs