

Tough and Reliable
with Great Looks
at a Low Cost

4-Wire UV Flame Detector with Relay Output

● Model: CF6002

Compatible with all security alarm system

Dual LEDs

Two LEDs blink standby, provide 360° visibility

Quick Detection of Flame from Distance

Compact UV Sensor with High Sensitivity and Wide Directivity

Relay Contact Output

Alarm relay contact output can be adjusted(default setting is NO)

Unpolarized wire and wide voltage input

To prevent the likelihood of wiring errors



General Description

The device is an Ultraviolet-only flame detector designed to detect fires and provide alarm outputs directly from the detector while maintaining false alarm immunity. It detects in the ultraviolet (UV) spectral range for optimized speed of response. It is fast and capable to detecting the ultraviolet (UV) rays emitted by a burning substance and is used in high hazard applications such as petrochemical plants, munitions factories and other areas where flammable or explosive liquids or solids are handled or stored.

The flame sensor adopts an ultraviolet photosensitive tube, with qualities of highly sensitive, reliable, dust-resistant, corrosion proof and moisture-resistant, therefore is not sensitive in sunlight, dust, oil, tolerance of fume, and humidity. Set in a standard calibration to detect a flames at a distance of 25 meters, which flame created by 2Kg ethanol in a Container of Base 33cmX33cm, Height 5cm.

Features and Benefits

- Compatible with all the security alarm system
- Alarm Relay Output(NO/NC can be adjustable)
- Unpolarized wire input
- Wide range of operating voltages(9V~28VDC)
- Quick Detection of Flame from Distance
- Built in microprocessor intelligent software
- Two LEDs blink standby, provide 360° visibility
- Twist-on mounting base with tamper lock

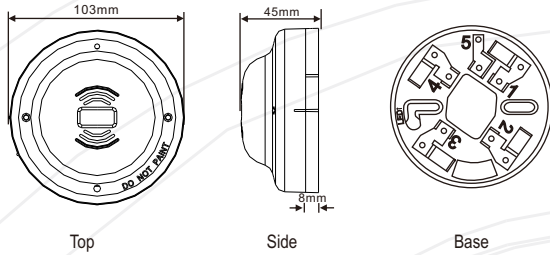


4-Wire UV Flame Detector with Relay Output

Installation Guidelines

All wiring must be installed in compliance with the National Electrical Code, applicable state and local codes, and any special requirements of the local Authority Having Jurisdiction.

Figure 1. Dimension of detector:



Technical Specifications

Diameter: 103mm
 Height (including mounting base): 45 mm
 Weight: 153 g
 Operating Temperature Range: -10°C to 50°C
 Operating Humidity Range: 10% to 93% Relative Humidity, Noncondensing
 Latching Alarm: Reset by momentary power interruption

Electrical Ratings

Power Supply Voltage: 12 VDC (12V~ 30VDC)
 Standby Current: 10 mA @ 12VDC
 Alarm Current: 30 mA @ 12VDC
 Alarm Relay Contacts Rating: 2A@24VDC
 Spectrum : 180~290nm
 Detection Angle: 110 degree
 Detection Sensitivity: Grade I, 25m@flame
 (Container 33cmX33cm,Height 5cm with 2Kg ethanol)

Figure 2. Angular Sensitivity(Directivity)

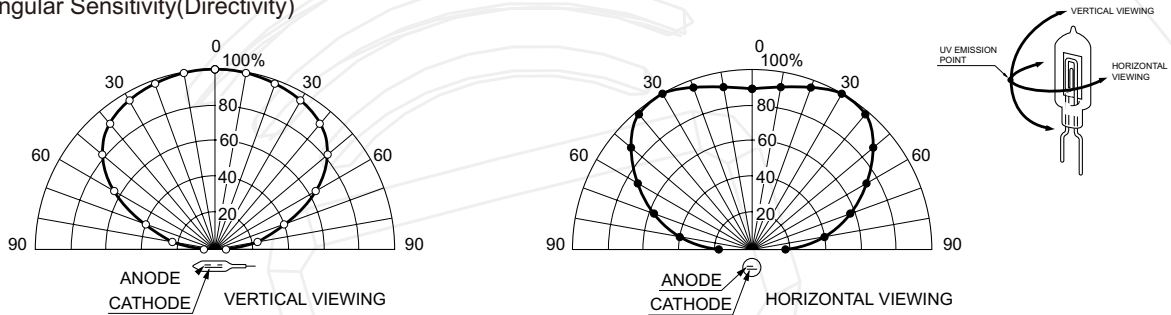
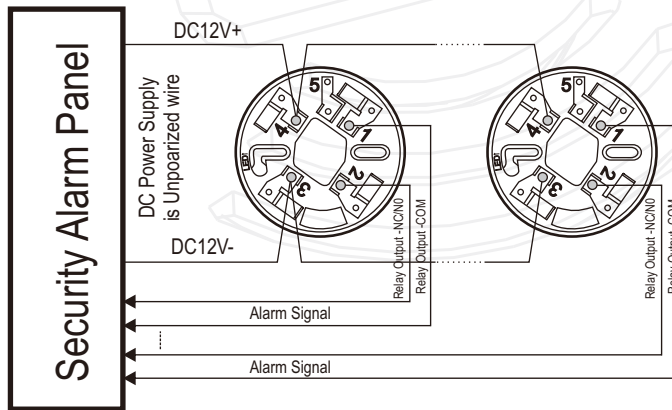


Figure 2. Wiring diagram for the detector:



Ordering Information

Part Number	Pack Quantity	Dimensions (w x d x h millimetres)	Weight
CF6002	Individual (1 units)	103x103x45	153g

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