Explosion-Proof Point-Type UV Flame Detector
AW-FD706EX

The Explosion-Proof Point-Type UV flame detector AW-FD706EX has high sensitivity to monitor early flame of ultraviolet radiation, can provide rapid alarm response to most flames, and it has reliable self-diagnosis and excellent explosion-proof performance. It is well applied in the dangerous places where flames are easy to occur quickly.



Features

- ✓ Built-in high-speed, low-power, high-performance 32-bit high-precision data processing chip;
- ✓ Adopt fast response type ultraviolet optical sensor;
- ✓ The small fire can be detected earlier;
- ✓ The detection distance is 35 meters (0.33m*0.33m*0.05m n-heptane fire);
- ✓ The perfect algorithm best combines the flame detection and false alarm capabilities;
- ✓ The detector is suitable for a variety of fuels;
- ✓ Suitable for heavy industry applications;
- ✓ Low maintenance cost, easy to upgrade and improve.

Performance

Detection Range	Fire Source and Size		Detail
Maximum Distance	N-Heptane	0.1m² Fire Plate	35m
	Gasoline		30m
	Diesel		30m
	Kerosene		30m
	Alcohol		30m
	Paper		25m
	Methane	0.5m (H) x0.2m (W)	25m
Respond Time	0.3x0.3m N-Heptane		≤10s

Technical Specification

Model	AW-FD706EX
Spectrum Range	UV 185-260nm
Detection angle	120°
Sensitivity level	Grade I
Main Voltage	24VDC(18~30VDC)
Working current	Alarm:≤50mA (It has a working status indicator, which flashes in green when in normal monitoring state;it has a fire alarm confirmation light, which is always on in red when the fire alarm is in state; it has a fault indicator, which is always on in yellow when in fault state;)
Relay Output	Fire alarm relay ， 1A@30VDC. It's normally open contact output. The normally open contact is disconnected in the monitoring state, and the normally open contact is closed in the fifire alarm state; Fault relay ， 1A@30VDC. It's normally open contact output. The normally open contact is closed in the monitoring state, and the normally open contact is disconnected in the fault alarm state;
Signal output	Relay type 2 fire alarm and fault relay output
Ex-Atex Protection Level	Exd II C T6 Gb/tD A21 IP66 T80°C
Protection class	IP66 / IP67
Operation method	Infrared remote control
Reset method	Power off reset, Communication protocol reset, Remote control reset
Environmental	Temperature range: -40℃～70℃ Storage temperature range:(-40~-85°F) Humidity: 0 ～ 96%RH (non-condensing) can withstand 100% condensing humidity for a short time
Materials and colors	Cast Aluminum,The coating is an insulating layer, corrosion-resistant, Red
Electrical Interface	1×3/4NPT,M25*1.5,G3/4, optional
Size	120mm* 95mm* 85mm
Accessories	Cast aluminum bracket
Weight	about 0.7kg
	GB 12791-2006 "The Point Type Ultraviolet Flame Detector", GB3836 "Explosive Environment"