

## Description

AW-FD704EX explosion-proof ultraviolet & infrared 3 flame detector is a new generation of detectors aimed at product performance improvement. This smoke detector adopts a signal processing algorithm with multiple patents, which can suppress various radiations caused by the sun, artificial lighting, welding, lightning strikes and "black body".

It provides continuous protection in the presence of numerous and frequent sources of false alarms and in environments where infrared radiation is present.



## Features

- ✓ Four bands: UV 185~260nm, IR 3.8um / 4.3um / 5.0um
- ✓ Sensitivity setting can provide fast alarm, response time ≤5s
- ✓ Detection distance of n-heptane can reach 197 feet (60m)
- ✓ With lens pollution self-check function
- ✓ Support multiple communication methods, flexible and easy to use

## Technical Specification

<b>Model</b>	AW-FD704EX
<b>Size</b>	11.9cm×14.1cm×12.0cm
<b>Weight</b>	3kg
<b>Color</b>	Red
<b>Shell Material</b>	Cast aluminum or stainless steel
<b>Electrical Interface</b>	2x3/4NPT, M25*1.5, G3/4 (adapters can be customized)
<b>Accessories</b>	Cast aluminum or stainless-steel bracket, plug, anti-collision net
<b>Spectrum Range</b>	IR 3.8-5.0um    UV 185-260nm
<b>Detection Angle</b>	120°
<b>Sensitivity Level</b>	Sensitivity adjustable in three levels (set by magnetic stick)
<b>Voltage Range</b>	24VDC (18~30VDC)
<b>Working Current</b>	Current loop type: monitor≤30mA    alarm≤45mA Relay type: monitor≤25mA    alarm≤35mA
<b>Output</b>	Current loop type: 0 ~ 20mA, current output: fault≤2mA, normal 4mA, fire alarm 20mA Relay type: 2-loop fire alarm and fault relay output Support RS-232
<b>Reset Method</b>	Power-off reset / Communication protocol reset / Remote reset

<b>Working Temperature</b>	-40°C~70°C
<b>Storage Temperature</b>	-40°C~85°C
<b>Working Humidity</b>	0~96% RH (non-condensing), can bear the 100% condensing humidity for a short time
<b>Reset Method</b>	Power-off reset or communication protocol reset
<b>Ex-ATEX Certification</b>	Exd II C T6 Gb/Ex tD A21 IP66 T80°C
<b>Protection Class</b>	IP66 / IP67
<b>Design Standard</b>	GB 15631-2008 "Special Fire Detectors", GB 12791-2006 "Point-type Ultraviolet Flame Detectors", GB3836 "Explosive Environment"

Inflamer	Fire Size	Detecting Distance
N-heptane	0.1 m <sup>2</sup> Fire plate	60m
Gasoline		45m
Diesel		40m
kerosene		40m
Alcohol		35m
Paper		30m
Methane	0.5m (H) x 0.2m (W)	35m

Inflamer	Fire Size	Response Time
N-heptane	0.3m x 0.3m	≤10s
Hydrogen flame	-	≤5s

### Product Diagram

