



## UV/IR Flame Detector

### DESCRIPTION

The UV/IR flame detector responds to UV radiation wavelengths of 185 to 260 nanometers and IR radiation in the 4.64-micron range. By responding only to this narrow bands of the spectral range, the combined UV/IR flame detector distinguishes between flames and non-flame sources.

### FEATURES

- ◆ Programmed to increase immunity against false alarm sources
- ◆ Integrated monitoring (optional)
- ◆ Real-time monitoring of product status with RS485 communication
- ◆ Event log with time and date
- ◆ High reliability through certifications
- ◆ Lead wire-integrated type - Easy installation
- ◆ Accurate detection of fire
- ◆ Using dual-type detection circuits using ultraviolet/infrared wave
- ◆ High Speed Response to fire
- ◆ Using highly sensitive ultraviolet/infrared sensors
- ◆ FM 3260 / EN 54-10 (2809-CPR-E0012)
- ◆ IECEx / ATEX / Dust Explosive

### GENERAL SPECIFICATIONS

Detection Range	Fuel	ft/m	Fuel	ft/m
-Sensitivity Setting 1ft x 1ft pan fire *20"(0.5M) Plume Fire	Heptane	118 / 36	Diesel	82 / 25
	Gasoline	118 / 36	Kerosene	82 / 25
	Jet A	82 / 25	Alcohol	82 / 25
	JP 4	82 / 25	Paper	30 / 9
	*Propane(LPG)	30 / 9	*Methane	30 / 9
Field of View	Horizontal 100° Vertical 100°			
Response Time	Normally 10 Seconds (Maximum 30 Seconds)			
Temperature Range	Operating: -40°F ~ 167°F (-40°C ~ 75°C) Storage: -40°F~176°F (-40°C ~80°C)			
Humidity	Relative humidity of up to 93% ± 2% for the operational temperature range			



CS-UIE-C20P (Explosion – proof)

### ELECTRICAL SPECIFICATIONS

Operating Voltage	19.2Vdc ~ 28.8Vdc
Power Consumption	On stand-by : 30mA Alarm : 75mA
Wiring	15 to 24AWG
Electrical Interface	Relay dry contact: NO Fault dry contact: NC

### OUTPUT SIGNALS

Relays	Alarm relay (SPST) Fault relay (SPST) 4-20mA RS-485
--------	--



## MECHANICAL SPECIFICATIONS

Enclosure	Stainless Steel (316L) Aluminum (AL6061)
Dimensions	Cylinder 61.5(H)mm x 75(Ø) mm
Weight (Approx.)	Stainless 316L: 3.0kg (6.61lbs) Aluminum: 0.49kg (1.08lbs)
Water and Dust Tight	IP67, NEMA 4X

## APPLICATIONS

- ◆ Industrial Fires
- ◆ Cultural Heritage Made of Wood
- ◆ Oil & Gas Industries
- ◆ Indoor Gyms
- ◆ Airport
- ◆ Multi-Story Car Parks
- ◆ Military Base

## CERTIFICATION & APPROVAL

- ◆ IECEX
- ◆ FM 3260
- ◆ ATEX
- ◆ EN54-10
- ◆ Dust Explosive

## HAZARDOUS AREA ZONES

- ◆ IECEX Ex db IIC T6 Gb ( -40°C ≤ Ta ≤ +75 °C )
- ◆ ATEX Ex db IIC T6 Gb, (IP66/67)
- ◆ Ex tb IIIC T6 Db (ZONE 21) IP66/67 T85°

## ORDERING GUIDE

### ◆ Accessories

#### Cable Length

- 2M (standard)
- Require customization (      M)

#### Cable Gland

- For Stainless Steel Enclosure
- For Aluminum Enclosure

#### Bracket

1.  Aluminum (160mm)
2.  Stainless Steel long leg (134mm)  
 Stainless Steel short leg (83mm)



#### Cable Gland

#### For Stainless Steel Enclosure

A2FRC-20b  
(1/2" NPT) IP67  
(Stainless Steel)



#### For Aluminum Enclosure

16C (1/2")  
(Brass)

