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.

CS-UIE-C20P (Explosion – proof)

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

ELECTRICAL SPECIFICATIONS

Operating Voltage	19.2Vdc ~ 28.8Vdc
Power Consumption	On stand-by : 30㎃ Alarm : 75㎃
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

GENERAL SPECIFICATIONS

Detection Range	Fuel	ft/m	Fuel	ft/m
	Heptane	118 / 36	Diesel	82 / 25
-Sensitivity Setting	Gasoline	118 / 36	Kerosene	82 / 25
1ft x 1ft pan fire	Jet A	82 / 25	Alcohol	82 / 25
*20"(0.5M) Plume Fire	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℃ ~80℃)			
Humidity	Relative humidity of up to 93% ± 2% for the operational temperature range			

E-207, Bundang Techno Park 700, Pangyo-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, South Korea 135516
Tel: +82-31-781-1400 I Fax: +82-31-781-2337

CSA CHANG SUNG ACE Co., Ltd.

MECHANICAL SPECIFICATIONS

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

APPLICATIONS

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

CERTIFICATION & APPROVAL

◆ IECEx
◆ ATEX
◆ Dust Explosive
◆ FM 3260
◆ EN54-10
◆ SIL2 (Pending)

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	**For Aluminum Enclosure**
A2FRC-20b (1/2" NPT) IP67 (Stainless Steel)	16C (1/2") (Brass)