

UV/IR Flame detector

CS-UIE-C20P+



Product Overview

The UV/IR flame detector responds to UV radiation and IR radiation. By responding only to narrow bands of the spectral range, the combined UV/IR flame detector distinguishes between flames and non-flame sources.

Main Features

- Programmed to increase immunity against false alarm sources
- Integrated monitoring (optional)
- Real-time monitoring of product status with RS-485 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
- Fast response to fire
- Using highly sensitive ultraviolet/infrared sensors
- FM 3260 / EN 54-10 (2809-CPR-E0012)
- IECEx / ATEX / Dust Explosive
- Explosion proof for Class I, Division 1, Groups A, B, C, and D, T6...T5; and Dust ignition proof for Class II/III, Division 1, Groups E, F, and G, T6...T5 hazardous (classified) locations.
- Ambient temperature range is -40°C to 70°C~75°C with ingress protection IP66/67

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
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General Specifications

	Fuel	ft/m	Fuel	ft/m
Detection range Sensitivity setting - 1ft x 1ft pan fire - *20”(0.5M) plume fire	Heptane	115/36	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			

Mechanical Specifications

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

Certificates & Approvals

- Dust Explosive
- FM 3260
- EN54-10
- SIL2 (Pending)
- FM22US0081
- XP/II/1/ABCD/T6...T5 Ta = -40°C to +70~75°C
- DIP/II,III/1/EFG/T6...T5 Ta = -40°C to +70~75°C
- IP66/67

Applications

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