

IR3 Flame detector

CS-TIE-C30P+



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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Product Overview

CS-TIE-C30P+ has three IR sensors and these detect three specific wavelength bands within the IR spectral range of a fire. Due to its variety of detection ranges, their immunity to false alarms to minimize malfunctions and reliability have been greatly improved.

Main Features

- Alarm and warning function in case of abnormal temperature and voltage (optional)
- Highly immune to false alarms
- Various fire output signals (optional)
- Lead wire-integrated type : Easy installation
- Compact in size therefore can be installed in small space – mainly used for cultural heritage made of wood, indoor gyms, multi-story car parks
- High speed response to fire
- FM3260 / EN54-10 (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

General Specifications

	Fuel	ft/m	Fuel	ft/m
Detection range	Heptane	197/60	Kerosene	138/42
	Gasoline	197/60	Alcohol	118/36
Sensitivity setting - 1ft x 1ft pan fire - *20"(0.5M) plume fire	Jet A	138/42	*Methane	89/27
	JP 4	138/42	*Propane	89/27
	Diesel	138/42	Paper	69/21
Field of View	Horizontal 90° Vertical 90°			
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
- NEPSI
- 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