

HiTemp-Dura Flame Detector

Packed with unique features, this world-class detector is ideally suited for multi-burner use

Safe-Fire's HiTemp-Dura Flame Detector is a high-performance and quality product. Its unique features make it a world-class system for detecting coal or oil flames and the perfect choice for multi-burner applications. It delivers high-discrimination, absolute dependability and unparalleled heat tolerance.



To find out more about Safe-Fire products and services:

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High quality components

Safe-Fire's innovative HiTemp-Dura Flame Detector has been developed using the world's best R&D and the world's best components. The HiTemp-Dura Flame Detector system is comprised of the SA-3100 Amplifier, an outer carrier, an inner carrier and cable assembly and the HiTemp-Dura Flame Detector.

Highly sensitive

The SA-3100 is the world's only amplifier based on state-of-the-art DSP microprocessor technology. It features four flame detection programs and can transmit both digital contact (flame-on or flame-off) and analog signals (flame intensity) into the BMS system.

Supreme intelligence

No other amplifier can match the intelligence of the SA-3100 Amplifier. It can be readily incorporated into a computer network, using specialized software. Multiple users on single computers can access real-time data for up to 128 sets of amplifiers, including flame status and analytical information. Purpose-developed software enables users to remotely adjust the flame detector parameters, monitor and analyze the combustion conditions.

Remarkably tolerant

The SF-300UV & SF-300IR are the only flame detectors in the world that can withstand temperatures up to 100°C/212°F, providing reliability and functionality, even in extreme conditions.

SA-3100 Amplifier Full of features

- DSP microprocessor
- SMT technology
- Completely digital menu-operation
- Files selection function
- Flame learning function
- LED display, Touch screen operation
- Electronic self-checking function
- Password protection
- Computer networking
- 19" standard rack
- Flame relay output
- Failure replay output

- Flame on/off threshold values setting
- 24 VDC operating voltage
- Easy adjustment

SF-300UV SF-300IR Flame Detector Full of features

- Withstands temperatures up to 100°C/200°F
- Responds to the UV or IR flames
- Secure, convenient bayonet connector
- Suitable for fiber optic applications

Specifications

		SF-300UV & SF-300IR Flame Detector System Characteristics		
ITEM		Specifications	Metric	American
1	Flame Scanner	Fitting thread:	1" NPT	
		Protection level:	IP66	
		Storage temperature:	- 40°C to + 120°C	- 40°F to + 248°F
		Operating temperature:	- 40°C to +100°C	- 40°F to + 212°F
		Humidity:	0 - 95% relative humidity, non-condensation	
		Spectrum response:	UV: 245 - 380nm; IR: 900 - 1700nm	
		Cooling air flow /pressure Using Fiber Optic:	20m ³ /Hr @ 3.5KPa	11.8 ft ³ /m @ 0.51 psi
		Electrical connection:	8-pin or 10-pin bayonet connector	
		Electrical requirement:	± 12 VDC, wave range within +15%, -15%	
		Rated current:	0.02A	
		2	Flame Amplifier	Storage temperature:
Operating temperature:	- 40°C to +65°C			- 40°F to + 149°F
Humidity:	0 - 95% relative humidity, non-condensation			
Power requirements:	24 VDC, +10%, -15%, 0.5A current			
Flame relay:	SPDT			
Fault relay:	SPDT			
Contact capability:	2A @ 240 VAC, 2A @ 30Vdc and 4-20Ma@24VDC, 750 ohms			