



SFTX 7500

Smart Flame Detector

Anacon

Process Control

Flame detectors are the first line of defense in fire detection and extinguishing systems which provides an excellent safety measure against flame, preventing it from turning into a catastrophic fire, saving lives and assets. ANACON SFTX 7500 infrared & ultraviolet flame detector contains UV and IR sensors with optical filters. The sensor has the highest sensitivity to the CO2 emission spectrum (4.4microns) produced by the combustion of hydrocarbons, thus allowing maximum sensitivity to combustible gas fires and rejecting false signals from incandescent lamps, sunlight and hot objects. The ultraviolet sensor operates in the short wave UV spectrum, thus making it blind to sunlight. The combination of multiple sensors makes the SFTX 7500 the ideal choice for flame detection with elimination of all sources of false alarms.

The mounting arrangement allows the UV and IR sensors to monitor the same hazardous location with a 110-degree cone of vision. The detector has multiple signal processing algorithms, combined with the logical comprehensive judgment of the flame flicker frequency, to maximize the suppression of false alarms and the best fire detection performance. The special fire signal processing method and multi-sensor detection technology greatly improve the sensitivity and response time of the detector. The detector is suitable for liquid and gas fires, open flames accompanied by smoke and HYDROGEN FIRES.



Applications

- Offshore oil and gas installations
- Chemical / Petrochemical / Fertilizer industries
- Refineries / Storage tank farms
- Power plants and gas turbines
- Drilling and production platforms
- Fuel loading / unloading facilities
- LNG / LPG processing and storage facilities
- Aircraft hangars / Automobile spray painting booths

Benefits

- High immunity to false alarms
- Hydrogen and Hydrocarbon flame detection
- Digital RS485, Analog and relay outputs
- High sensitivity – upto 100 feet (30m) for a 1 feet n-heptane fire
- Data logger to log alarms, faults and other events in real time
- Automatic self test
- Color status LED for easy viewing the device operating status
- Inbuilt buzzer and flasher for audio visual alarms
- Heated optics to avoid condensation and icing
- Weather proof and explosion proof housing for easy installation in the toughest application



Phone: 022-35115264/65

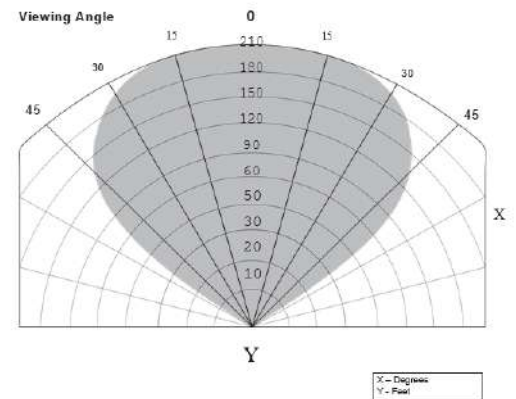
Web: www.anaconprocess.com

Email: info@anaconindia.com

Address: 403/404, gemstar Commercial Complex, 4th Floor, Ramchandra Lane Extension, Malad (West), Mumbai-64

General Specification

Field of view	:	90° cone of vision, 45° from axis 120° diagonal cone of vision
Sensitivity	:	Very High , High , Medium and Low Selectable through MODBUS
Response Time	:	Typically 3 to 5 seconds to 0.1 m2 (1 sq. feet) n-Heptane fire at 30 meters
Time Delay	:	0 – 30 seconds
Spectral Range	:	Ultraviolet 185 – 260 nanometers Infrared Band 4.3 micrometer to 600 nanometers

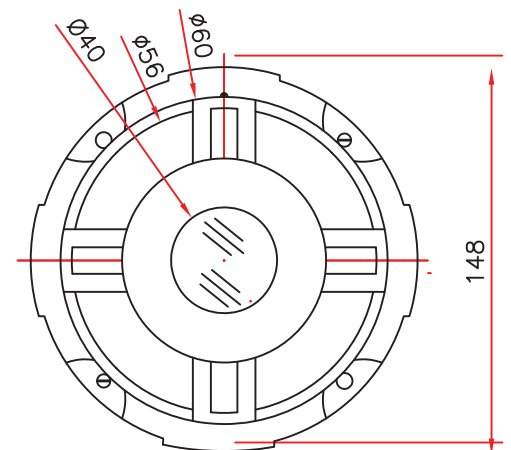


Electrical Specification

Operating Voltage	24 V DC nominal (18 – 32 V DC)
Current Consumption	< 85mA during standby <160 mA during alarm < 300 mA maximum with heated window and alarm condition

Output Signals Specification

Analog	0 – 20 mA, 600 ohms		
Digital	RS485, MODBUS RTU		
Relay	Fire	Normally open, closed on alarm	
	Fault	Normally closed, open on fault	
HART	Optional plug in modules		
Visual Indication	Tri color LED	Normal Operation	Green
		Fire	Red
		Fault	Amber



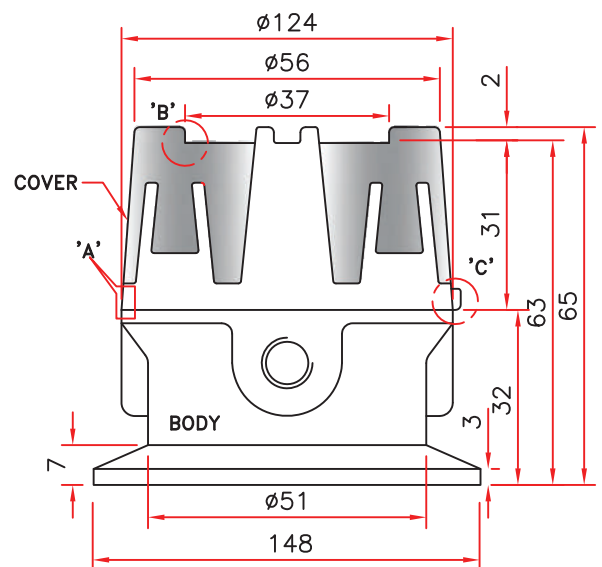
TOP VIEW

Environmental Specification

Temperature Range	Operating, -15°C to +85°C Storage, -20°C to + 85°C
Humidity	5 to 98% relative humidity, non condensing

Mechanical Characteristics Specification

Enclosure Materials	Copper free powder coated aluminum or 316 stainless steel	
Cable Entry	3 nos ½ " NPT and 1 no ¾" NPT	
Protection Class	IP67	
Wiring	2.5 mm ² (14 AWG) to 0.326 mm ² (22 AWG), shielded cable recommended	
Mounting	Wall mounted / Swivel mounted	
Certifications	Exd IIC, T6	IP67
	As per IS/IEC 60079-0, IS/IEC 60079-1, IS/IEC 60529 Class 1, Division1, Groups B,C& D	
Shipping Weight	2.5kg, without swivel	



SIDE VIEW

Specifications subject to change without prior notice



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