



HIGH ACCURACY

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PRODUCT DATASHEET

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Rosemount™ 975UF

Ultra Fast Ultraviolet Infrared Flame Detector

The Rosemount™ 975 ultra fast ultraviolet infrared flame detector is designed to meet two major requirements:

- High-Speed Response (20 msec)
- High Reliability (immunity to false alarm)

The Rosemount 975UF ultra fast ultraviolet infrared flame detector can detect hydrocarbon-based fuel and gas fires, hydroxyl and hydrogen fires, as well as metal and inorganic fires. The UV/IR flame detector senses radiant energy in the short wave section of both the ultraviolet and infrared portions of the electromagnetic spectrum. The signals from both sensors are analyzed for frequency, intensity, and duration. Simultaneous detection of radiant energy in both the UV and IR sensors triggers an alarm signal. The UV sensor incorporates a special logic circuit that helps prevent false alarms caused by solar radiation.



Rosemount 975UF Ultra Fast Ultraviolet Infrared Flame Detector.

Features & Benefits

- UV/IR dual-sensor
- High-speed response - 20 msec to flash fire
- Solar blind
- Automatic built-in-test (BIT) - to assure continued reliable operation
- Heated window - for operation in harsh weather conditions (snow, ice, condensation)
- Multiple output options for maximum flexibility and compatibility
 - Relays (3) for alarm, fault, and auxiliary
 - Analog output for fast detection
 - 0–20 mA (stepped)
 - HART® Protocol for maintenance and asset management
 - RS-485, Modbus compatible
- High reliability - MTBF - minimum 150,000 hours
- Approved to Safety Integrity Level 2 (SIL 2 - TÜV)
- 5 year warranty
- User programmable via HART or RS-485

Applications (model dependent)

- Explosives and ammunition
- Offshore oil and gas
- Onshore oil and gas
- Petrochemical plants
- Storage tank farms
- Aircraft hangars
- Chemical plants
- Power generation facilities
- Pharmaceutical industry
- Printing industry
- Warehouses
- Automotive industry
- Waste disposal facilities
- Aerospace industry
- Hydrogen fuel cell industry
- Hydrogen vehicle parking and refueling
- Battery charging areas
- Refinery hydrogenation
- Space industry hydroxyl propellant
- Static fuel cell systems

Approvals	
Hazardous Area	<p>ATEX and IECEx II 2 G D or Ex db eb op is IIC T4 Gb Ex tb op is IIIC T96°C Db (Ta -55°C to +85°C)</p> <p>FM/FMC/CSA Class I Div. 1, Groups B, C, & D Class II/III Div.1, Groups E, F & G</p>
Performance	EN 54-10 (VdS) FM 3260
Reliability	IEC 61508 - SIL 2 (TÜV)













Accessories	
Flame simulator kit	00975-9000-0010
Tilt mount	00975-9000-0001
Duct mount	00975-9000-0002
U-bolt/pole mount	00975-9000-0007 (2" pole) 00975-9000-0008 (3" pole)
USB RS-485 harness kit	00975-9000-0011
Weather protector	Plastic: 00975-9000-0003 Stainless Steel: 00975-9000-0004
Air shield	00975-9000-0005
Cone viewer kit	00975-9000-0006



HA HIGH ACCURACY

measurement instruments

Our offering:

	<p>Pressure Measurement</p>		<p>Level Measurement</p>
	<p>Temperature Measurement</p>		<p>Flow Measurement</p>
	<p>Marine Measurement & Analytical</p>		<p>Gas Analysis</p>
	<p>Liquid Analysis</p>		<p>Flame and Gas Detection</p>
	<p>Tank Gauging</p>		<p>Wireless Infrastructure</p>
	<p>Acoustic & Discrete</p>		

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