

## **Protect your people and assets**

The Rosemount 965 Flame Detector detects hydrocarbon fires at up to 150 ft. (45 m) with unparalleled reliability. The design is based on QuadSense™ triple infrared (IR3) technology that delivers protection with field-proven immunity to false alarm sources.

The Rosemount 965 for nonhazardous locations is designed to deliver best-in-class performance for commercial and light-industrial applications. It is ideal for locations such as transportation infrastructure, commercial and cultural buildings, cable tunnels, and semiconductor facilities.



### **Lower Total Cost Of Ownership**

- Lifespan of over 150,000 hours
- · Proven false alarm immunity
- · Factory calibration for life use
- · Low power consumption
- Reduce the number of units required for large areas

#### **Enhanced Safety and Protection**

- Multi-spectrum QuadSense™ IR technology
- · Fast response time
- · Wide field of view
- · Five sensitivity levels
- · 25 substances detection certified
- · Accessories for customization

# Easy to use and enhanced Durability

- · Multiple output options
- · Universal wiring option
- Built-in test (BIT)
- Operating temperature range to meet industry standards
- Non-condensing relative humidity up to 100%
- Enclosure ratings of IP66 and IP68



## **ROSEMOUNT™ 965 FLAME DETECTOR**

### High-performance specifications for superior flame detection

Specifications	
Spectral response	4 infrared (IR) bands between 4 μm and 5 μm
Detection Response time	<5 Seconds
Sensitivity ranges	9.8 ft. (3 m), 32.8 ft. (10 m), 65.6 ft. (20 m), 98.4 ft. (30 m), 147.6 ft. (45 m)
Field of view	Horizontal: 100° (at 50% of maximum distance) Vertical: 95° (at 50% of maximum distance)
Temperature range	-40 to +158 °F (-40 to +70 °C)
Humidity	Non-condensing relative humidity up to 100%
Detected substances	Gasoline, N-heptane, JP5 , Kerosene, Diesel fuel , Ethanol 95% , Isopropyl alcohol (IPA) , Methanol , Methane(1) , Liquefied petroleum gas (LPG)(1) , Paper , Polypropylene , Gun powder(2) , Fireworks (10 pieces per test) , Cooking oil , Mineral oil (20W50) , Wood , Ethylene glycol , Butyl acrylate , Vinyl acetate , Flammable adhesive (flash point <+140 °F [+60 °C]) , Solvents , Oil paint , Jet A1 , Oil (10W40).
Relays	Fault: Normally closed (NC), Alarm: Normally open (NO), SPST volt-free contacts rated 2 A at 30 Vdc
0-20 mA (stepped) default (1)	Fault: < 1.1 mA, Built-in test (BIT) fault: 2 mA $\pm$ 0.3 mA, Normal: 4 mA $\pm$ 0.3 mA, Warning: 16 mA $\pm$ 0.3 mA, Alarm: 20 mA $\pm$ 0.3 mA
HART® protocol	HART communication on the 0-20 mA analog current (FSK) used for maintenance, configuration changes, and asset management, available in mA source output wiring options.
RS-485	RS-485 Modbus®-compatible communication link that can be used in computer controlled installations

<sup>(1)</sup> This output is configurable. See product data sheet for full specifications.

For more information visit: <u>Emerson.com/Rosemount965</u> or contact your local Sales Representative.

The Emerson logo is a trademark and service mark of Emerson Electric Co. Rosemount is a mark of one of the Emerson family of companies. All other marks are the property of their respective owners. ©2025 Emerson Electric Co. All rights reserved. MS-00807-0100-4965



