

SPECTREX™ 20/20Q FLAME DETECTOR

Best in class flame detection for nonhazardous locations.

Top-quality technology for enhanced safety

The Spectrex 20/20Q Flame Detector is based on the QuadSense™ triple infrared (IR3) technology, ensuring enhanced protection with proven immunity to false alarm sources. The 20/20Q is especially designed for nonhazardous locations, delivering best-in-class performance for commercial and light-industrial applications. It is ideal for transportation infrastructure, commercial and cultural buildings, cable tunnels, and semiconductor facilities.

Lower Total Cost Of Ownership

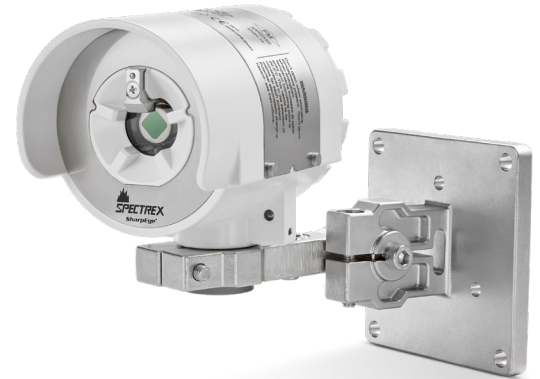
- Lifespan of over 150,000 hours
- Proven false alarm immunity
- Factory calibration for life
- Low power consumption
- Fewer units required for large areas

Enhanced Safety and Protection

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

Easy to use with enhanced Durability:

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



Dependable Operation

- Factory Calibrated for life
- Immune to false alarms
- Wide field of view for fewer devices in large areas
- 150,000 hour lifespan

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Spectrex 20/20Q performance specifications

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)
Operating and Storage	-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%, Iso-propyl 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 ± 0.3 mA, Normal: 4 mA ± 0.3 mA, Warning: 16 mA ± 0.3 mA, Alarm: 20 mA ± 0.3 mA
RS-485	RS-485 Modbus®-compatible communication link that can be used in computer controlled installations

(1) This output is configurable.
See product data sheet for full specifications.

For more information visit: Spectrex.net
or contact your local Sales Representative.

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