

OI-760 Multi-Spectrum IR Flame Detector

The Omniguard Model 760 Multi-Spectrum Infrared Flame Detector is an advanced fire detection device designed for rapid and accurate identification of hydrocarbon fires using multi-spectrum IR technology.

Key Features:

- **Multi-Spectrum IR Sensing:** Monitors five infrared wavelengths for early, accurate detection
- **False Alarm Immunity:** Patented algorithm minimizes nuisance alarms while maintaining fast response
- **Reliable Alarm Output:** Integrates with safety systems for immediate alerts and automated response
- **Rugged Design:** Built for harsh industrial environments with low maintenance
- 90 degree field of view

Applications:

- Oil and gas facilities
- Chemical processing
- Industrial manufacturing
- Critical infrastructure
- High-risk environments

The Model 760 delivers fast, reliable flame detection with advanced accuracy and false alarm resistance for critical safety applications.



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Product Specifications

Operating Temperature Range	-40 C to +85 C
Spectral Response	Infrared Peak Sensitivities of 2.2um, 2.9um, 3.7um, 4.4um, 5.8um
Nominal Voltage	24 VDC (Ripple Voltage <240mV)
Range	20 to 30 VDC
Power Consumption	Standby - 33mA, Standby 4-20 mA - 38mA, Fire alarm - 47mA, Auto test - 75mA, Manual test - 94mA
Output	<p>Relays</p> <ul style="list-style-type: none"> • Relays (2): Fire, Trouble, Dry Contacts • Rated: 2 A at 28 VDC (Select NO or NC) • Fire Relay: Select Latching or Non-Latching • 1.5 mA = Exceedance Fault • 20 mA = Fire • 16 mA = Warning Fire IR • 5 mA = Warning Ref IR • 4 mA = Ready • 3 mA = Fire Relay Coil Fault • 2 mA = Calibration Not Complete • 1 mA = Self-Test Fault • 0 mA = Current Loop Fault
Digital Output	RS-485 Modbus Serial I/O
Product Dimensions	4.5 in. H x 5.5 in. W x 4.9 in. D
Total Weight	5 lbs. Aluminum, 13 lbs. Stainless-Steel
Conduit Entry	3/4-14 NPTF or M20-1.5
Optional Accessories	Swivel Mount—No. 20856 Portabel Test Unit—No. 545 Air Shield Assy Kit—No. 23546
Certifications & Approvals	Class I, Division I, Groups B, C & D (Explosion Proof) Class II, Division I, Groups E, F & G (Dust Ignition Proof) TYPE 4X Weatherproof, Dust-Tight, Watertight CE0081 Ex II 2 G/D Ex db IIB+H2 T5 Gb for Gas Ex tb IIIC T100 C Db IP66 for Dust Copper-Free Aluminum Housing Coated to MIL-C-5541C, Class 3 (White)