

## Omniguard Model 860 Flame Detector

The Omniguard Model 860 UV/IR Flame Detector is a high-performance safety device designed to detect unwanted fires and provide immediate alarm notifications. Utilizing dual-spectrum technology, the Model 860 combines ultraviolet (UV) and infrared (IR) radiation sensing to offer early and accurate fire detection, ensuring maximum safety in industrial and commercial environments.

### *Key Features:*

- **Dual-Spectrum Detection:** Senses both ultraviolet and infrared radiation within specific wavelengths, providing early detection of fire events with enhanced reliability.
- **Patented Fire Event Analysis Algorithm:** Incorporates the Omniguard Fire Event Analysis Algorithm, delivering:
  - \* **Superior False Alarm Immunity:** Effectively filters out non-fire sources, ensuring high accuracy in fire detection.
  - \* **Quick Response to Real Fires:** Optimized for fast detection of hydrocarbon and certain non-hydrocarbon fires, enhancing site safety protocols.
- **Versatile Application Options:** Available in two specialized versions:
  - \* **Hydrocarbon-Only Version:** Ideal for environments with hydrocarbon fuels and petrochemical processes.
  - \* **Hydrocarbon and Non-Hydrocarbon Version:** Extends detection capabilities to specific non-hydrocarbon fires, offering broader safety coverage.
- **Reliable Alarm Output:** Transmits critical alarm signals to integrated safety systems, enabling automated emergency responses and instant alerting of site personnel.
- **Durable and Resilient Design:** Built to withstand harsh industrial conditions, ensuring long-lasting performance and low maintenance requirements.

### *Ideal For:*

- Oil and gas facilities
- Chemical processing plants
- Industrial manufacturing sites
- High-risk environments with diverse fire hazards
- Critical infrastructure requiring dual-spectrum safety solutions

The Omniguard Model 860 UV/IR Flame Detector delivers advanced fire detection technology, superior false alarm immunity, and flexible deployment options, providing a comprehensive safety solution to protect assets and maintain operational safety in demanding environments.



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# Ultraviolet-Infrared Flame Detector

Product Specifications	
Operating Temperature Range	-40°F to 185°F (-40°C to 85°C)
Spectral Response	UV Peak Sensitivity of 0,22 µm; Infrared: Peak of 4.4 µm (Standard) and 2.9 µm and 4.4 µm (Dual Pass)
Nominal Voltage	24 VDC (Ripple Voltage <240mV)
Range	20 to 30 VDC
Power Consumption	90 mA (Standby), 110 mA (Alarm), 250 mA (Auto and Manual Test)
Output	Relay <ul style="list-style-type: none"> <li>* Relays (2): Fire, Trouble, Dry Contacts, Hermetically Sealed</li> <li>* Rated: 2 A at 28 VDC (User Selects NO or NC)</li> <li>* Fire Relay: User Selects Latching or Non-Latching</li> </ul> Current Loop (Standard Version): 0 to 20 mA Output <ul style="list-style-type: none"> <li>* 20 mA = Fire</li> <li>* 16 mA = UV or IR Presence</li> <li>* 4 mA = Ready</li> <li>* 0 mA = 20</li> </ul>
Digital Output	Programmable RS-485 Modbus Serial Output
Product Dimensions	4.5 H x 5.5 W x 6 D in.
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 (Used with Aluminum); No. 70991 (Used with Stainless Steel) Portable Test Unit - Model 540 / 545 Air Shield Assy Kit - No. 8001023 Rain Shield - No. 23546
Certifications & Approvals	Class I, Division 1, Groups B, C & D (Explosion Proof) Class II, Division 1, Groups E, F & G (Dust Ignition Proof) NEMA 4X Weatherproof, Dust-Tight, Watertight CE0081 Ex d II 2 G/D Ex d IIB+H2 T5 Gb for Gas on 660-0XXXX Ex tb IIIC T100°C Db IP6X for Dust on 660-0XXXX Ex d IIB+H2 T4 Gb for Gas on 660-1XXXX Ex tb IIIC T1 135°C Db IP6X for Dust on 660-1XXXX Copper-Free Aluminum Housing Conversion Coated to MIL-C-5541C, Class 3 (White) - Standard Stainless Steel Housing with Passive Finish per MIL-5-5002C, Type 1 (Optional)



*Manufactured By:*

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