

# OTIS

## Omniguard Model 860 Flame Detector

### Ultraviolet-Infrared Flame Detector

The Omniguard Model 860 UV/IR flame detector is designed to detect unwanted fires and output alarm information. The Model 860 senses ultraviolet radiation and infrared radiation in the appropriate wavelengths for early fire detection. Utilizes the patented Fire Event Analysis Algorithm to provide superior false alarm immunity. Available in two versions: one is for hydrocarbon fires only, and one is for hydrocarbon and certain non-hydrocarbon fires.



### Product Features

- Patented Fire Event Analysis (FEA) Algorithm for Superior False Alarm Immunity
- Operating Temperature: -40°F to 185°F (-40°C to 85°C)
- User-Selectable Sensitivities
- Long Range Detection
- Advanced Through-the-Lens Diagnostic Self-Test
- Self-Contained, Explosion-Proof Enclosure
- Field Configurable Relays and Sensitivity
- State-of-the-Art Microprocessor Control with Proprietary Fire Library
- Robust Weatherproof Enclosure for Indoor or Outdoor Applications
- Widest Field View in the Industry of 120°
- High Intensity, Localized Indication of Fire or Fault
- Economical No-Test Version Available
- FM, CSA, IECEx and ATEX Approved
- All Inclusive 3-Year Warranty on Parts and Labor



301 S. Texas Avenue  
Bryan, Texas 77803  
P: 979-776-7700

[sales@otisinstruments.com](mailto:sales@otisinstruments.com)

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## Omniguard Model 860 Product Specifications

Product Specifications	
Operating Temperature Range	-40°F to 185°F (-40°C to 85°C)
Spectral Response	UV: Peak Sensitivities 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	<p>Relay</p> <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> <p>Current Loop (Standard Version): 0 to 20 mA Output</p> <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	<p>Class I, Division 1, Groups B, C &amp; D (Explosion Proof) Class II, Division 1, Groups E, F &amp; 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</p>

Manufactured By:

Firefly AB  
Stockholm, Sweden  
Phone: +46 (0)8 449 25 00  
E-mail: omniguardsales@firefly.se  
www.omniguardbyfirefly.se

