

# OTIS

## Omniguard Model 760 Flame Detector

### Multi-Spectrum Infrared Flame Detector

The Omniguard Model 760 multi-spectrum infrared flame detector is designed to detect unwanted fires and output alarm information. The Model 760 senses infrared radiation in five discreet infrared wavelengths for early fire detection for maximum protection. Utilizes the patented Omniguard Fire Event Algorithm for superior false alarm immunity and quick detection of hydrocarbon fueled 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 (No External Test Source Required)
- Self-Contained, Explosion-Proof Enclosure
- Field Configurable Relays and Sensitivity
- State-of-the-Art Microprocessor Control
- Wide Field View of 90°
- High Intensity, Localized Indication of Proper Operation: Fire or Fault
- FM, CSA, IECEx and ATEX Approved
- 5-Year Warranty



**John M. Ellsworth Co., Inc.**

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## Omniguard Model 760 Product Specifications

Product Specifications	
Operating Temperature Range	-40°F to 185°F (-40°C to 85°C)
Spectral Response	Infrared Peak Sensitivities of 2.2 μm, 3.7 μm, 4.4 μm and 5.8 μm
Nominal Voltage	24 VDC (Ripple Voltage <240mV)
Range	20 to 30 VDC
Power Consumption	80 mA (Standby), 100 mA (Alarm), 160 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 = Warning Fire IR</li> <li>• 5 mA = Warning Ref IR</li> <li>• 3 mA = Fire Relay Coil Fault</li> <li>• 2 mA = Calibration Not Complete</li> <li>• 1 mA = Self-Test Fault</li> <li>• 0 mA = Current Loop Fault</li> <li>• 4 mA = Normal</li> </ul>
Digital Output	RS-485 Modbus Serial I/O
Product Dimensions	4.5 x 5.5 x 4.9 in.
Total Weight	5 lbs.
Conduit Entry	3/4-14 NPTF or M20-1.5
Optional Accessories	Swivel Mount - No. 20856 Portable Test Unit - Model 545 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) TYPE 4X Weatherproof, Dust-Tight, Watertight CE0081 Ex II 2 G/D Ex d 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)



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