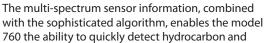
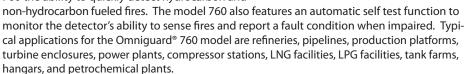


MULTI-SPECTRUM INFRARED FLAME DETECTOR

Omniguard® model 760

The Omniguard® Model 760 multi-spectrum infrared flame detector is designed to detect unwanted fires, and output appropriate alarm information. In a breakthrough technological advance, the model 760 senses infrared radiation in five discreet infrared (IR⁵) wavelengths for early fire detection. The model 760 utilizes the patented Omniguard® Fire Event Algorithm (FEA) for superior false alarm immunity.







Specifications

Performance ratings

Responsive to hydrocarbon and non-hydrocarbon flames.

Third-party performance certified to detect: Normal sensitivity

- 1 square foot gasoline fire at 75 feet in <1 second
- 1 square foot n-Heptane fire at 75 feet in <1 second Enhanced sensitivity
- 1 square foot gasoline fire at 100 feet in <1 second
- 1 square foot n-Heptane fire at 100 feet in <1 second Long distance sensitivity
- 1 square foot gasoline fire at 200 feet in <1 second
- 1 square foot n-Heptane fire at 200 feet in <1 second
- 4 square foot JP-5 fire at 200 ft in <5 seconds

Environmental ratings

Rated:

Standard housing is copper-free aluminum conversion coated to MIL-C-5541C, Class 3 (white). Optional stainless steel housing available with passive finish per MIL-S-5002C, Type 1.

Key features

- Patented Fire Event Analysis (FEA) algorithm for superior false-alarm immunity
- b Five-year warranty on sensors from date of delivery. Three-year warranty on components or manufacturing defects from date of delivery
- 5 Field of view 90 degrees
- Nobust, weatherproof enclosure for indoor or outdoor applications
- 6 FM, CSA, IECEX, ATEX, SIL2, Russian Fire Certificate, EMC, LVD, CSFM
- 6 Advanced through-thelens diagnostic self-test
- b Long range detection
- Self-contained, explosion-proof enclosure
- Field configurable relays and sensitivity
- State-of-the-art microprocessor control
- High intensity, localized indication of fire or fault

Omniguard[®] model 760

Specifications (continued)

Operating temperature range: -40° to +85°C (-40° to +185°F)

Spectral response

Infrared peak sensitivities of 2.2 μ m, 2.9 μ m, 3.7 μ m, 4.4 μ m, and 5.8 µm

Detector inputs

Inputs

24 VDC (ripple voltage <240mV) · nominal voltage

20 to 30 VDC

Power consumption

80 mA standby 100 mA alarm • auto and manual test 160 mA

Detector outputs

Relay

• relays (2) fire, trouble, dry contacts, hermetically

sealed

2 A at 28 VDC. User selectable NO or NC rated user selectable latching or non-latching fire relay

Current loop (standard version): 0 to 20 mA output

• 20 mA = Fire

• 16 mA = Warning fire IR • 5 mA = Warning ref IR

• 3 mA = Fire relay coil fault • 1.5 mA = Exceedance fault

• 2.5 mA = Block fault

• 1 mA = Self-test fault

• 0 mA = Current loop fault

• 4 mA = Normal

MODBUS RS-485 serial I/O

Mechanical considerations

Weight 2,4 kg (5 lbs)

6.3 kg (13 lbs) (stainless steel)

Height x width x depth 114 x 140 x 125 mm

(4.5 x 5.5 x 4.9 in)

Conduit entry 3/4-14 NPT or M20-1.5

Optional accessories

No 20856 (used with aluminum) Swivel mount

No 24784 (used with stainless steel)

Portable test unit Model 545 Air shield kit No 19797 Rain shield No 23546

Ordering information

To order, please specify

Type: Omniguard® model 760

Designation: Multi-spectrum infrared flame detector

760 - X X X X X Ordering number:

Fire type

0 Hydrocarbon/non-hydrocarbon

Housing material/conduit entry

0 Aluminium, 3/4-14 NPT (white)

2 Stainless Steel, 3/4-14 NPT

3 Aluminium, M20-1.5 (white)

5 Stainless Steel, M20-1.5

Test feature

1 Auto self-test

Fire relay configuration

0 latching

1 non-latching

Approvals

0 FM, CSA, IECEx, ATEX, SIL2,

Russian Fire Certificate, EMC, LVD, CSFM













