

Simplicity™ Flame Scanners

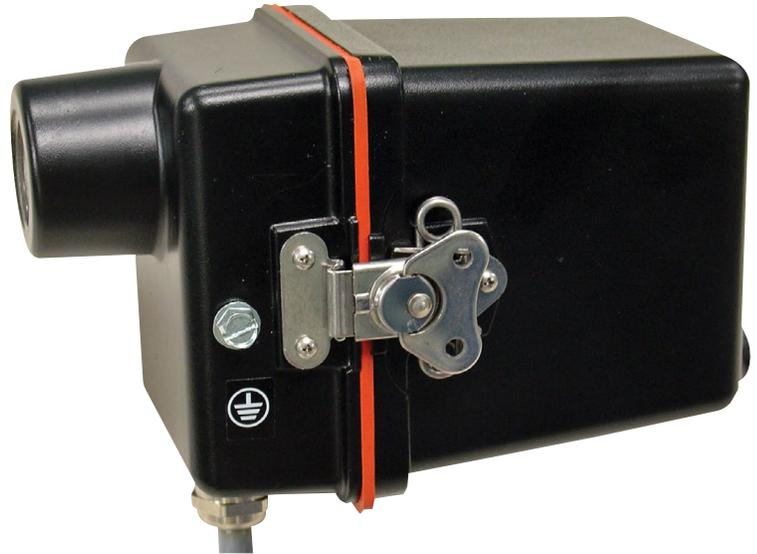


Integrated Flame Scanner with internal flame relay 65UV5-1004 / 65UV5-1004E

Reliable flame scanning with minimal set up

The Fireeye Simplicity self-checking scanners are used to detect ultraviolet emissions from fossil fuel flames such as natural gas, coke oven gas, propane, methane, butane, kerosene, light petroleum distillates and diesel fuels.

The flame scanner is available with a one-second ("E" version) or four-second (non-"E" version) flame failure response time (FFRT) depending on the model selected.



Features

- Fully integrated design – a true one-piece system
- No programming and minimal setup – “out-of-the-box” operation
- Superb detection, sensitivity and wide angle of view
- Field proven and reliable technology
- Worldwide safety agency approvals
- Rugged NEMA 4X (IP66) housing
- Hazardous area classification
- Truly economical solution
- Two versions covering world-wide applications



Simplicity Flame Scanners

Specifications

MECHANICAL

| | |
|--------------------------|--|
| Housing Material | Cast aluminum with black polyester powder coat finish |
| Housing Weight | 4 lbs. (2kg) |
| Environmental | NEMA 4X, IP66 |
| Mounting | |
| Model 1004 | 1" NPT female pipe mount with 3/4" NPT female cooling air connection |
| Model 1004E | 1" BSP female pipe mount with 3/4" BSP female cooling air connection |
| Hazardous Classification | |
| Model 1004 | Class I Div 2, Groups A, B, C, D, T4A TA = 65°C Class II Div 2, Groups F & G, T4A TA = 65°C |
| Model 1004E | Ex II 3 G/D Ex nA IIC T4A |

COOLING/PURGE AIR REQUIREMENTS

| | |
|--------------------|---|
| Source | Clean, dry, cool |
| Volume | 4SCFM (113 l/min) at 3/4" threaded mounting flange, or 1" "Y" fitting, mounted on scanner sight pipe. Temperature near the upper limit of the scanner operating range and/or use with dirty/dusty fuels may require up to 15 SCFM (425 l/min) |
| Pressure | Adequate to overcome furnace or windbox pressure |
| Temperature Rating | -40°F to +150°F (-40°C to +65°C) |
| Humidity | 0% to 95% relative humidity, non-condensing |

ELECTRICAL

| | |
|-----------------------|--|
| Input Power | 24 Vdc, +10%, -15% supply current 100 mA |
| Electrical Connection | Cable gland and 10 ft. (3m) of captive eight conductor cable |
| Flame Relay Output | SPDT (1 N.O., 1 N.C.) |
| Fault Relay Output | SPST (1 N.O.) |

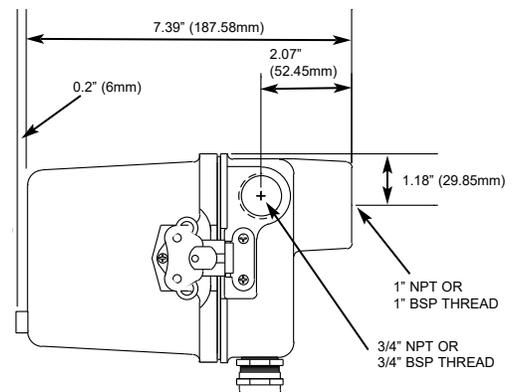
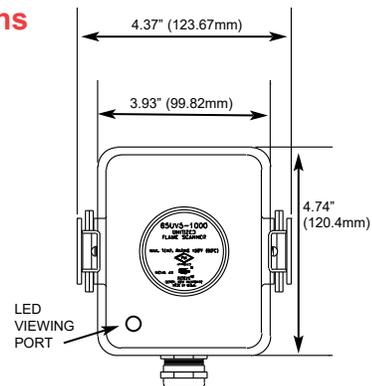
ELECTRICAL

| | |
|-------------------|---|
| Contact Rating | Minimum: 10 mA @ 5 Vdc Maximum: 2 A @ 30 Vdc, 2 A @ 240 Vac |
| Analog Output | 4-20mA dc current, referenced to 24 VDC common, maximum connected load 750 ohms |
| Status Indication | One (1) internal 2-color LED: "Flame Signal", "Fault" |

INTERNAL CABLE SPECIFICATION

| | |
|--------------------------|--|
| Eight (8) Conductors | #18 AWG, color coded |
| Jacket | PVC, meets UL PLTC Class I, Div 2, no conduit required, UV and oil resistant |
| Outside Diameter | 0.383" NOM. |
| Cable Temperature Rating | -13°F to +221°F (-25°C to +105°C) |

Dimensions



For more information, please [contact](#) your local Fireye Distributor.

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