

Simplicity™ Flame Scanners

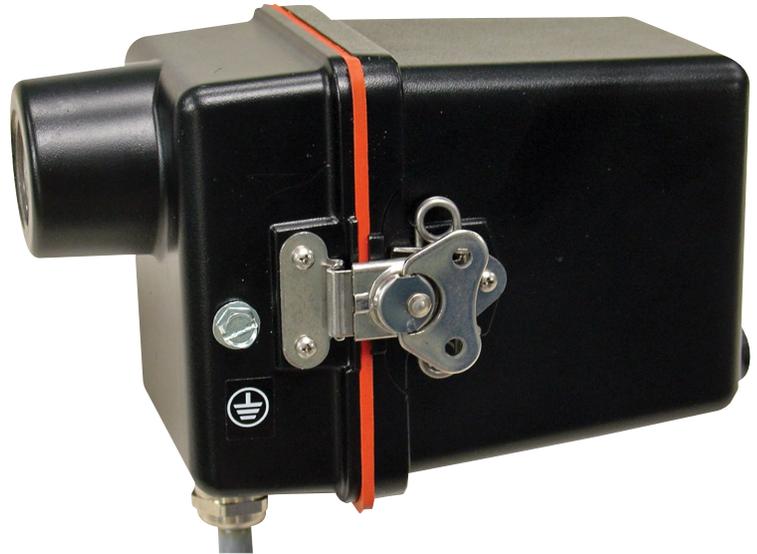


Integrated Flame Scanner with internal flame relay 65UV5-1004 / 65UV5-1004E

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.)

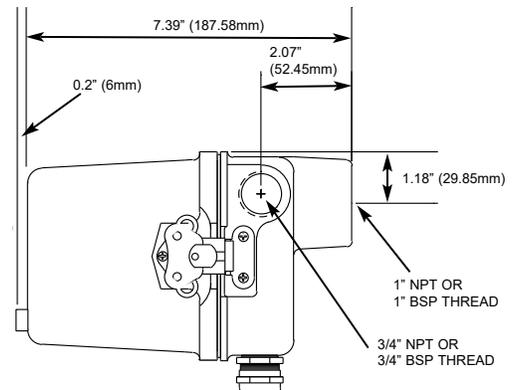
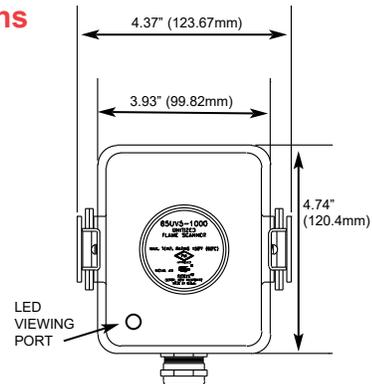
ELECTRICAL

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.

fireye.com

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