



## TYPE 85UVF/IRF Integrated Flame Scanner with Internal Flame Relay



SEE TABLE 1 ON PAGE 3

### DESCRIPTION

The Fireye Phoenix type 85UVF/IRF flame scanners are microprocessor based devices utilizing a solid state flame detection sensor. The Phoenix flame scanners incorporate an internal flame relay with automatically set ON/OFF thresholds, thereby eliminating the need for a remote flame amplifier or flame switch.

Phoenix scanners detect the amplitude of the modulations (the flame "flicker") that occur within the targeted flame, over a wide frequency. During the scanner setup procedure, the amplitudes of the target flame are automatically stored by the flame scanner, together with optimum ON/OFF criteria. The appropriate sensor gain is automatically selected. Phoenix scanners incorporate full self diagnostics and electronic self checking.

The Phoenix 85UVF/IRF is available in multiple models differentiated by preset flame failure response time (FFRT), levels of hazardous area certifications and agency approvals. Refer to Table 1 on page 3 for an overview of model numbers versus FFRT and product certifications.

The Phoenix 85UVF/IRF flame scanner is powered by 24Vdc and includes an integral 10-foot (3 meter) captive cable. An analog 4 to 20mA output of flame strength is standard.

### APPLICATION

Fireye Phoenix 85UVF self-checking scanners are used to detect 295 to 340 nanometers wavelength ultra-violet emissions.

**Typical Applications:** Duct Burners, Industrial Gas Burners, Refinery Applications, Low NO<sub>x</sub> Burners, Waste Gas Units and Incinerators.

Fireye Phoenix 85IRF self-checking scanners are used to detect 830 to 1100 nanometers wavelength infra-red emissions. They are suited for application to duct burners, industrial gas burners, refinery applications ignition systems and Low NO<sub>x</sub> detection and for continuous or non-continuous burner operation.

**Typical Applications:** Duct Burners, Industrial Oil Burners, Refinery Applications, Waste Oil Units and Incinerators.

*NOTE: Because the sensors in the Phoenix are solid state devices they can perform well with many different fuels. For example UV is typically used on gaseous fuels but can also be applied to oils and heavy oils. To be 100% sure of correct application a test should be performed.*

### OPERATOR & SYSTEM INTERFACE

Operator interface to the Phoenix scanner is via a pushbutton keypad and informative LEDs. These provide continuous indication of flame signal, flame relay status, scanner status as well as selected mode of operation. Simplified keystroke routines are used for setup and this can be completed in seconds. For remote interface, outputs are provided for flame switch, fault relay and 4 to 20mA flame strength.

# Flame Scanner Manual

**Scott C. Dulebohn**



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