

Eclipse Combustion Self-Check U.V. Scanner

856
Bulletin

6/95

Model 5602-91



- High quality fused silica quartz lens.
- Machined alloy housing with seals.
- Long life push-pull electromagnetically driven photo shutter.
- Detectors and signal processor automatically checked every 10 seconds.
- Scanner can be replaced without disturbing wiring.
- No scheduled replacement parts.
- Operates with 6000 Series Multi-Flame and 6500 Series Bi-Flame controllers.
- FM recommended for continuous applications (more than 24 hours without shutdown).

This scanner is used for continuous gas or oil flames. A mechanical shutter in the scanner closes every ten seconds, which is how the Eclipse flame safeguard checks for a flame signal. If a signal is present, indicating a runaway scanner, the flame safeguard shuts down the system.

The scanner operates with the Series 6000 Multi-Flame and Series 6500 Bi-Flame controllers, and has no scheduled replacement parts. Factory Mutual (FM) recommends these scanners be used when any fired equipment is operated continuously (more than 24 hours without shutdown).

Specifications

Mechanical	Overall Length: 197 mm (7-3/4") Diameter: 83 mm (3-1/4") Housing Material: Machined 6061 aluminum alloy Finish: Clear anodized Sight Tube Entrance: 25 mm (1") pipe thread Purge Air Entrance: 10 mm (3/8") pipe thread Purge Air Flow: 5 cfm, 10 psi maximum
Electrical	Supply Voltage: 120V +10/-15%, 60HZ Supply Current: 0.04A Output: 10V square wave frequency modulated
Supply Wiring	Type: Instrumentation cable with two pairs of individually shielded #18 AWG conductors, 60°C (140°F), 300V minimum, ALPHA #5620B1802 or BELDEN #9368
Temperature Range	-20° to +60°C (0°F to 140°F) case temperature
Shipping Weight	2 kilograms (4.5 lbs.)
Optical	Angle of View: @ 2.5° depending on sight pipe size and length Spectral Sensitivity: 180 to 230 nano meters; scanner is solar blind
Installation Requirements	Cable and connector for scanner (Part #15077)



ECLIPSE COMBUSTION, INC.