

HRSG Duct Burner Flame Scanner

BFI Automation famous gas turbine flame scanner technology is also available on HRSG Duct Burner applications.



Fiber optic system replacing the igniter brand flame scanner



Replacing traditional UV tube

Using our fiber optic system is a certain solution to heat issues. If the flame scanner mount measures less than 150°F sustained, then you can use our lower cost standard product.

Although a UV sensor is typically used for a natural gas flame, the problem with many duct burners is that the flame propagation is highly variable along the burner element. UV sensors have limited range so if the actual flame is at the far end, it will not register. We successfully use IR for this application, which senses flame anywhere along the burner.



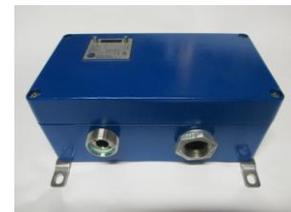
Standard (<150°F)

UL/CSA/CE



Fiber Optic System (probe, f/o cable, electronics box)(>150°F)

Enclosure IP65/66, NEC Class 1 Div 2 Groups BCD



FEATURES / BENEFITS

- ✓ **SIL 3 Reliability Rating** *Per IEC EN 61508, PFD (probability of failure on demand) is 1 in up to 10,000 starts. PFH (prob. of failure per hour of continuous use) is 1 in up to 100 million hours!*
- ✓ **Self-Checking / Fail-Safe**
The CFC dual channel microprocessor analyzes a wide UV range to ensure the flame is modulating, eliminating false signals. If a problem is detected, the scanner fails open.
- ✓ **Wide Spectral Range** *Not affected by variations in fuel consistency.*
- ✓ **No Programming Required to Operate** *Selectable output relay/4-20mA.*
- ✓ **Adjustable** *Performance can be data-logged and analyzed. Adjustments are possible for effects on flame by physical aspects such as nozzles, fuel and air pressure.*
- ✓ **Two Tear Warranty** *Limited to repair or replacement, at our discretion, of an undamaged unit, for a period of twenty-four months from date of shipment.*

Built-in diagnostic and graphic display capability can be accessed directly at the electronics housing with a laptop computer or communicated anywhere, such as the control room, using COM option. Layered screens showing 1, 4, up to 16 scanner performance graphics



Please contact us for more information.

Exclusive North American distributor:

IDEAL FLAME (800)743.1433 www.idealflame.com