



# ProFlame™ Integrated Flame Scanner

Model ZPF-110



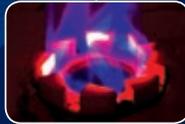
The ZEECO® ProFlame™ integrated flame scanner revolutionizes the industry by providing reliable flame detection and instant flame status for safer operation. **Easy to configure, simple to set up, the Model ZPF-110 (II 2G EExd IIC T6) is uniquely designed for use in Zone 1 hazardous areas.**

## Design Features and Benefits

- Compact and exceptionally reliable
- State-of-the-art digital signal processing for easy flame analysis
- Easily configurable frequency and gain settings for simple set-up
- Intuitive display to assist in troubleshooting
- Dual signal channel with electronic self-check for SIL3 applications
- Aiming feature reduces commissioning time when sighting the flame scanner
- Durable housing for a variety of operating environments
- Low power consumption with a 24V dc supply
- Reliable 4-to-20 mA flame intensity output

## Operating Environment

- Temperature: -20°C (-4°F) to +60°C (140°F)
- Relative humidity: 0% to 95% non-condensing
- Environmental protection rating: IP 67, NEMA 4X
- Vibration fatigue limit: 2 g (function tested to 5 g)
- Weight: 4.2 lbs (2.0 kg)
- Mounting: 1" NPT M (BSP available), integral sealing window and noise/heat barrier
- Housing material: aluminum, brushed finish
- Cable: integral 8 conductor cable, 10' (3m) long



BURNERS



FLARES

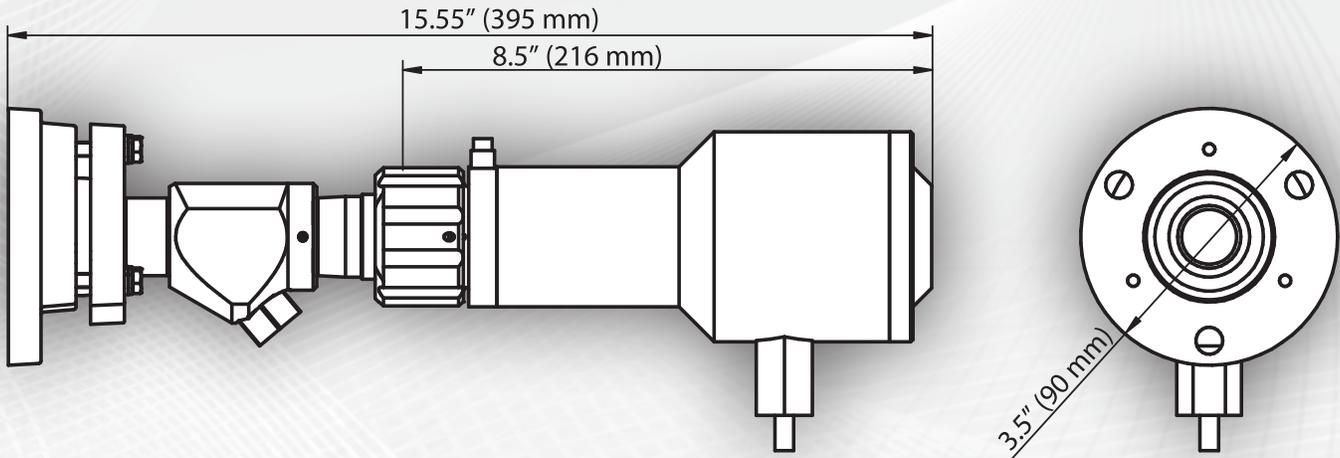


INCINERATORS



PARTS & SERVICE

# Model ZPF-110



## Operating Parameters - Input

### Input voltage

Supply voltage: 24V dc  $\pm$  20%, protection class III

Power consumption: 4 W

### Purge air

Cool, dry, clean air: 5 scfm (142 l/min) at 5" wc (12.5 mbar) above windbox or furnace pressure (sight tube exit point),  $\leq$  38°C (100°F) at wye fitting

## Operating Parameters – Output

Output relay: SPDT, Flame-On is the N.O. contact and Flame-Off is the N.C. contact

Contact rating: 48V dc at 0.5 A

Flame intensity output: 4 to 20 mA referenced to 24V dc common; 220Ω at 6.6V ( $\pm$ 2%)

Flame status indication: Flame-On LED, Flame-Off LED, Flame intensity bar graph

ZEECO® combustion and environmental solutions are designed and manufactured to comply with applicable local and international standards as defined by our customers.



REGISTERED ISO 9001: 2008

CERTIFICATION APPLIES TO ZEECO HEADQUARTERS ONLY.

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