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-120 (II 3G EEx nA nC IIC T6) is uniquely designed for use in Zone 2 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: -40°F (-40°C) to 167°F (+75°C)
- Relative humidity: 0% to 99.5% non-condensing
- Environmental protection rating: IP 67, NEMA 4X
- Vibration fatigue limit: 4 g (function tested to 5 g)
- Weight: 1.3 lbs (0.6 kg)
- Housing material: aluminum, painted finish
- Mounting Nipple: 1" NPT M, integral sealing window and noise/heat barrier*
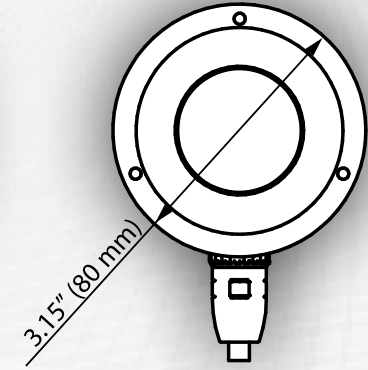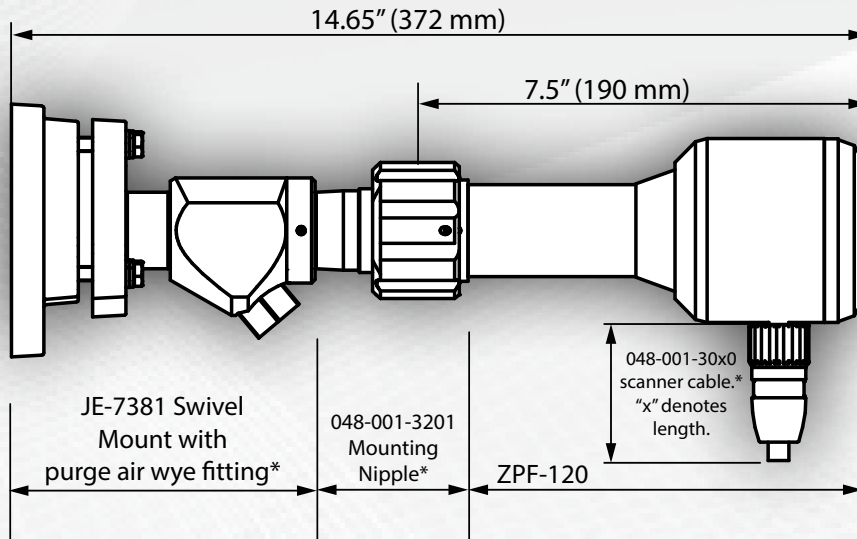- Cable: quick disconnect, 8 conductor cable*

* Ordered Separately

Model ZPF-120

14.65" (372 mm)

7.5" (190 mm)

048-001-30x0 scanner cable.* "x" denotes length.

3.15" (80 mm)

JE-7381 Swivel Mount with purge air wye fitting*

048-001-3201 Mounting Nipple*

ZPF-120

* Ordered Separately

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), $\leq$ 100°F (38°C) 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; 120Vac at 0.125A

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.

NSF
REGISTERED
ISO 9001: 2008

CERTIFICATION APPLIES TO ZEECO HEADQUARTERS ONLY.

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