

Insight II Stainless Steel Housing



The FIREYE InSight II Type 95DSS3-1CEXSS flame scanner is housed in a 316 stainless steel enclosure for extreme environments that can be found in marine applications.

The 95DSS3-1CEXSS scanner utilizes advanced techniques for discrimination and integrate the flame detection, amplification, safety determination and flame switch functions into a single detection head. No separate amplifier or flame switch module is therefore required to interface with the main burner management system.

95DSS3-1CEXSS is a dual cell scanner utilizing UV and IR detectors and a stainless steel housing which includes CE and ATEX ExdIIC approvals when suitable connectors and fittings are used. Model 95DSS3-1CEXSS includes the alpha-numeric VFD Display and Keypad.

Standard features include two independently adjustable Flame Relays that can be selected to operate from the UV sensor, the IR sensor, or both sensors, 21 choices of modulation frequency, adjustable sensor gain, adjustable flame relay ON/OFF thresholds, two 4-20 mA analog signal strength outputs (one for FR1 and one for FR2), Fault Relay, four selectable programmable files (e.g. for different fuels or firing rates), and Auto Config capability with manual override. Remote communication capability is available via optional "Fireye Explorer" PC software

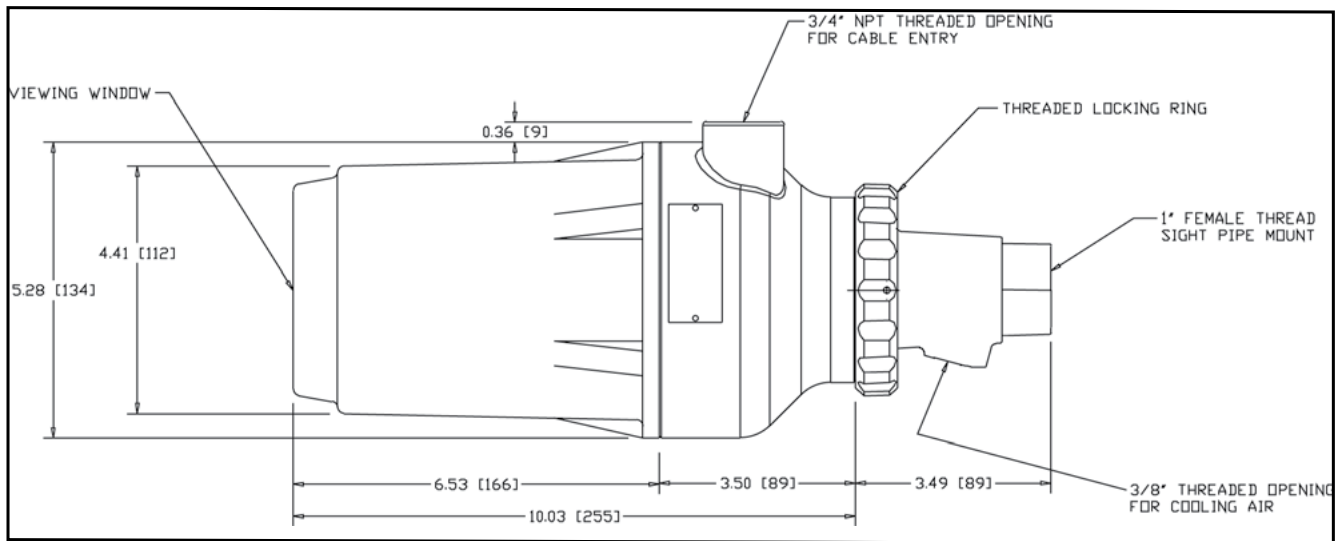
FEATURES

- Both IR and UV sensors
- Two flame relays
- VFD display and keypad included
- Fault relay
- Two 4-20 mA outputs
- Four memory files
- Communications
- Auto config
- IP66 housing



60-2693-x stainless
mounting flange
(ordered separately)

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SPECIFICATIONS

MECHANICAL:

- **Housing Material:** 316 stainless steel w/zinc primer, gray epoxy midcoat, polyurethane topcoat
- **Housing Weight:** 21.3 lbs. (9.66kg) Stainless steel model
- **Environmental:** IP66, Ex db IIC T6, T5, T4; Ex tb IIIC T85, T100, T135°C
- **Mounting:** Requires one threaded mounting flange, ordered separately (see below).
- **Cooling / Purge Air Requirements:**
 - Source: Clean, dry, cool
 - Volume: 4 SCFM (113 l/min) at 3/8" threaded mounting flange, or 1 inch "Y" fitting, mounted on scanner sight pipe.
 - Temperature near the upper limit of the scanner operating range and/or use with dirty/dusty fuels may require
 - up to 15 SCFM (425 l/min).
 - Pressure: Adequate to overcome furnace or windbox pressure
 - Temperature Rating: -40°F to +150°F (-40°C to +65°C)

- Humidity: 0% to 95% relative humidity, non-condensing

MOUNTING FLANGE:

- **Material/Weight:** 316 Stainless steel (without heat-insulating threaded insert), with zinc primer, gray epoxy midcoat, polyurethane topcoat / 1.86 lbs. (0.84 kg).
- **Flange Threads:** P/N 60-2693-3 1" NPT female pipe mount with 3/8" NPT female cooling air connection. P/N 60-2693-2 1" BSP female pipe mount with 3/8" BSP female cooling air connection.

ELECTRICAL:

- **Input Power:** 24 Vdc, +10%, -15% supply current: 0.35 A, 8.5 VA, output rise time must be 20 msec Max. Fireye power supply 60-2685 is recommended
- **Cable Specification:** P/N 59-546 (8-conductor), P/N 59-547 (12-conductor): Multi-core, 8 and 12 conductor (color coded), 18- AWG, with foil wrap and overall braided shield and drain wire. PLTC-ER rating. Maximum cable length 1000 feet (305 meters) Cable Jacket: PVC / black (flame-retardant, RoHS compliant) Temperature Rating: -40°F to +221°F (-40°C to +105°C), P/N 59-546 Nominal O.D. 0.44" (11.2 mm), maximum O.D. 0.48" (12.2mm), P/N 59-547 Nominal O.D. 0.52" (13.2 mm), maximum O.D. 0.56" (14.2mm) Maximum cable length 1000 feet (305 meters)