

INTEGRATED FLAME SCANNER WITH TWO INTERNAL FLAME RELAYS



TYPE 95DSS3

The FIREYE InSight II Type 95DSS3 flame scanners are micro-processor based flame scanners utilizing both solid state infrared (IR) and ultraviolet (UV) sensors.

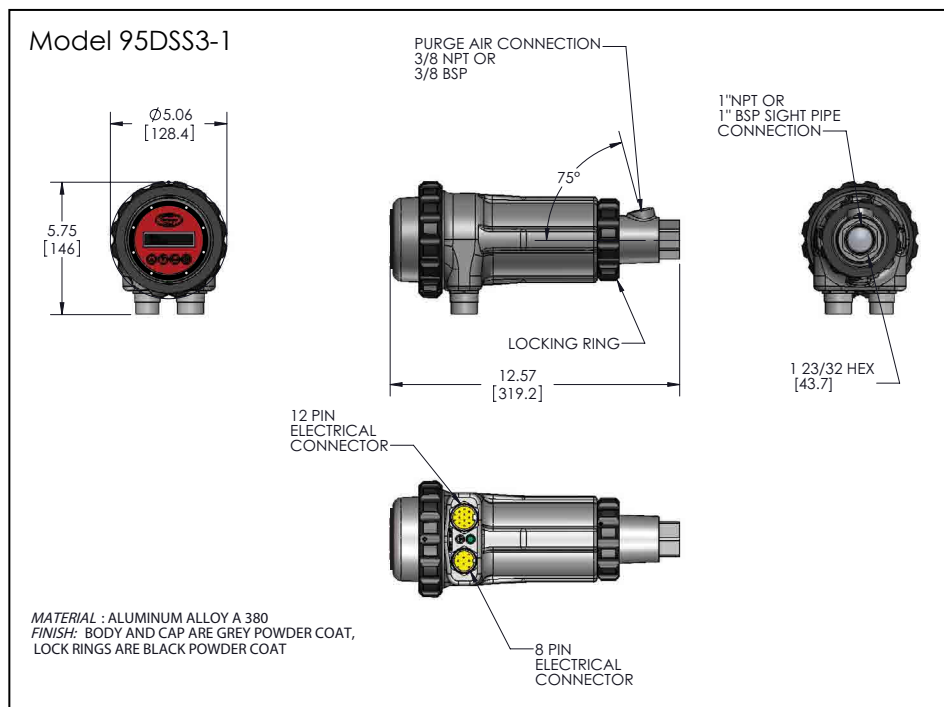
The FIREYE InSight II flame scanners incorporate two internal flame relays with adjustable ON/OFF thresholds and two 4-20 mA analog outputs, thereby eliminating the need for a remote flame amplifier.

The FIREYE InSight II scanners are powered by 24 Vdc

and have electronic self checking. Model 95DSS3-1 has one 8-pin and one 12-pin electrical cable quick disconnect. Models 95DSS3-1CEX and -1WICEX have internal terminal blocks for cable connection. The scanners have either an attached Keypad & VFD display, or an infrared transmitter for a remote handheld keypad / display.

INSIGHT II SCANNER FEATURES

Features	Models		
	95DSS3-1	95DSS3-1CEX	95DSS3-1WICEX
Infrared & Ultraviolet Sensors	✓	✓	✓
Flame Relays (2)	✓	✓	✓
Fault Relay	✓	✓	✓
4-20 mA Outputs (2)	✓	✓	✓
Modulation Frequency Selections	21	21	21
Memory Files	4	4	4
Communications	✓	✓	✓
Auto Config	✓	✓	✓
NEMA 4X, IP66 Housing	✓	✓	✓
Keypad & VFD Display	ordered separately	✓	
IR Transmitter for remote handheld display	ordered separately		✓
Area Classification:			
Class I DIV 2, Group A,B,C,D,F,G	✓		
Ex nA nC IIC T4	✓		
Ex d IIC T6		✓	✓



SPECIFICATIONS

MECHANICAL:

Housing Material: Cast aluminum with gray polyester powder coat finish

Housing Weight: 5.9 lbs (2.69kg), 7.1 lbs (3.22kg) "CEX" models, flange additional

Environmental: NEMA 4X, IP66

Area Classification: 95DSS3-1: Class I Div 2, Groups A, B, C, D, Class II Div 2, Groups F & G, 95DSS3-1CEX, -1WICEX: Ex d IIC T6

Mounting: Requires one of two threaded mounting flanges, ordered separately (see below)

Mounting Flanges: Contains an integral heat-insulating female thread insert (heat insulating nipple not required).

Flange Threads: P/N 60-2919-1 1"NPT female pipe mount with 3/8" NPT female cooling air connection. P/N 60-2919-2 1"BSP female pipe mount with 3/8" BSP female cooling air connection.

Mounting Flange Weight: 0.62 lbs (0.28kg)

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).

Temperature Rating: -40° to +150°F (-40°C to +65°C)

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

ELECTRICAL:

Input Power: 24 Vdc, +10%, -15% supply current .35 A, 8.5 VA

Electrical Connection: 8-pin and 12-pin screw type quick disconnect (non-CEX). "CEX" models have internal terminal blocks

Relay Output: FLAME RELAY 1, SPDT (1 N.O., 1 N.C.), FLAME RELAY 2, SPDT (1 N.O., 1 N.C.), FAULT RELAY, SPST (1 N.O.)

Contact Rating: Minimum: 10mA @ 5 Vdc, Maximum: 100 mA @ 30 Vdc, 100 mA @ 50 Vac

Analog Output: Two, 4-20 mA dc current, referenced to 24 Vdc common, maximum connected load: 750 ohms

Operator Interface: P/N 95DISP-1 Alpha -Numeric Display with five push button keys. P/N 95WIDISP-2 Infrared Transmitter, used in conjunction with P/N 95WIHH-2 hand-held communications tool.

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, low smoke, zero halogen)

Cable 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)