

Type 95DSS3



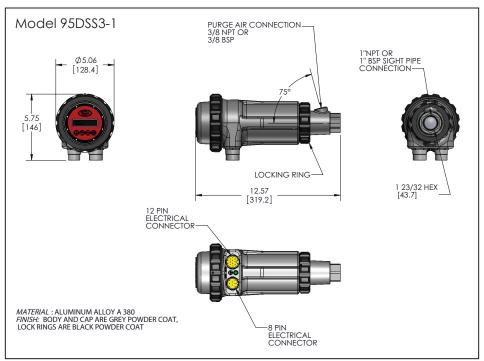
The FIREYE InSight II Type 95DSS3 flame scanners are micro-processor based flame scanners utilizing both solid state infrared (IR) and ultraviolet (UV) sensors.

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	95D\$\$3-1CEX	95DSS3-1WICEX
Infrared & Ultraviolet Sensors	\checkmark	\checkmark	\checkmark
Flame Relays (2)	\checkmark	\checkmark	\checkmark
Fault Relay	\checkmark	\checkmark	\checkmark
4-20 mA Outputs (2)	\checkmark	\checkmark	\checkmark
Modulation Frequency Selections	21	21	21
Memory Files	4	4	4
Communications	\checkmark	\checkmark	\checkmark
Auto Config	\checkmark	\checkmark	\checkmark
NEMA 4X, IP66 Housing	\checkmark	\checkmark	\checkmark
Keypad & VFD Display	ordered separately	\checkmark	
IR Transmitter for remote hand- held display	ordered separately		\checkmark
Area Classification:			
Class I DIV 2, Group A,B,C,D,F,G	\checkmark		
Ex nA nC IIC T4	\checkmark		
Ex d IIC T6		\checkmark	\checkmark

INSIGHT II SCANNER DIMENSIONS



INSIGHT II SCANNER SPECIFICATIONS

Cast aluminum with gray polyester powder coat finish 5.9 lbs (2.69kg), 7.1 lbs (3.22kg) "CEX" models, flange additional NEMA 4X, IP66 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 Requires one of two threaded mounting flanges, ordered separately (see below) Contains an integral heat-insulating female thread insert (heat insulating nipple not required). 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. 0.62 lbs (0.28kg) Source: Clean, dry cool Volume: 4 SCFM (113 I/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 I/min). -40° to +150°F (-40°C to +65°C) 0% to 95% relative humidity, non-condensing 24 Vdc, +10%, -15% supply current .35 A, 8.5 VA 8-pin and 12-pin screw type quick disconnect (non-CEX). "CEX" models have internal terminal blocks 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.) Minimum: 10mA @ 5 Vdc Maximum: 100 mA @ 30 Vdc, 100 mA @ 50 Vac Two, 4-20 mA dc current, referenced to 24 Vdc common, maximum connected load: 750 ohms 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. 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) 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) Thinking Beyond the Traditional...



MECHANICAL:

Housing Material: Housing Weight: Environmental: Area Classification:

Mounting: Mounting Flanges: Flange Threads:

Mounting Flange Weight: Cooling / Purge Air Requirements:

Temperature Rating: Humidity:

ELECTRICAL:

Input Power: Electrical Connection: Relay Output:

Contact Rating:

Analog Output: Operator Interface:

Cable Specification:

