

INTEGRATED FLAME SCANNER WITH INTERNAL FLAME RELAY

Type 95 Series 4



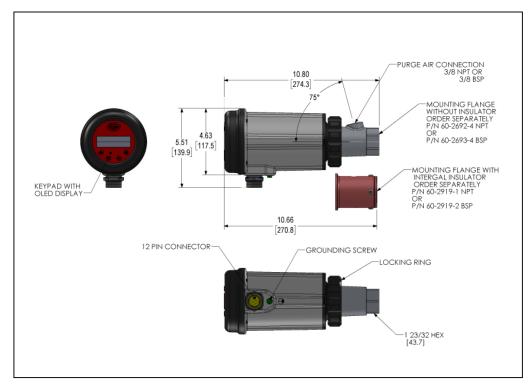
The FIREYE InSight Series 4 Type 95IR, and 95UV flame scanners are micro-processor based flame scanners utilizing solid state infrared (IR) or ultraviolet (UV) sensors.

InSight Series 4 scanners apply advanced techniques for discrimination offering dependable robust performance for challenging applications. InSight 4 integrates the flame detection, amplification, safety determination and flame switch functions into a unitized device at the burner. No separate amplifier or flame switch module is required to interface with the main burner management system.

Improved operator interface has a high visibility OLED 2X16 character display and a four push-button keypad to enable users to view operating parameters and select set-points.

INSIGHT Series 4 SCANNER FEATURES								
Features	Models							
	95UVS4- 1WINC	95IRS4- 1WINC	95UVS4E- 1WINC	95IRS4E- 1WINC	95UVS4-1	95IRS4-1	95UVS4- 1CEX	95IRS4- 1CEX
Infrared Sensor		\checkmark		\checkmark		\checkmark		\checkmark
Ultraviolet Sensor	✓		\checkmark		\checkmark		✓	
Flame Relay	✓	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
4-20 mA Outputs	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Modulation Frequency Selections	21	21	21	21	21	21	21	21
Memory Files	4	4	4	4	4	4	4	4
Communications	✓	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Auto Config	✓	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
2 X 16 Alpha OLED Display	✓	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Area Classification:								
Class I DIV 2, Group A,B,C,D,F,G	✓	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		
Ex nA nC IIC T4	✓	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		
Ex d IIC T6							\checkmark	\checkmark

INSIGHT TYPE 95 SERIES 4 SCANNER DIMENSIONS



INSIGHT II SCANNER SPECIFICATIONS

MECHANICAL:

Housing Material: Cast aluminum with gray polyester powder coat finish Housing Weight: 5.9 lbs (2.69kg), 13.2 lbs (5.98kg) "CEX" models, flange additional Environmental: NEMA 4X. IP66

95XX\$4-1WINC, 95XX\$4E-1WINC, 95XX\$4-1: Class I Div 2, Groups A, B, C, D, Class II Div 2, Groups F & G Area Classification:

95XXS4-1CEX: Ex d IIC T6

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

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 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 I/min).

-40° to +150°F (-40°C to +65°C)

0% to 95% relative humidity, non-condensing

ELECTRICAL:

Relay Output:

Analog Output:

Humidity:

Temperature Rating:

Flange Threads:

Mounting Flange Weight: Cooling / Purge Air Requirements:

Input Power: 24 Vdc, +10%, -15% supply current .025 A, 6.0 VA Electrical Connection:

12-pin screw type quick-disconnect (non-CEX). "CEX" models have internal terminal blocks

FLAME RELAY, SPST (N.O.) FAULT RELAY, SPST (N.C.)

Minimum: 10mA @ 5 Vdc (All models) Contact Rating:

Maximum: 2A @ 30 Vdc, 2A @ 50V Vdc (Series 4E-1 WINC models only)

Maximum 2A @ 30 Vdc; 2A @ 230 VAC (All other models)

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

Operator Interface: Alpha -Numeric Display with five pushbutton keys.

P/N 59-547 (12-conductor): Cable Specification:

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 59-547 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...

3 Manchester Road Derry, NH 03038 USA

tel: 603-432-4100 • fax: 603-432-1570

www.fireye.com

INS-4 APRIL 2017