



# Fireye 95DSS2E-1

InSight Expanded Dual IR/UV Flame Scanner

## Product scope

- Combines infrared and ultraviolet flame sensing.
- Uses the expanded InSight processing and local interface.
- Provides NEMA 4X / IP66 environmental protection.
- Requires sighting, purge-air and programmed-setting verification.

## Manufacturer source

Fireye CU-95 InSight Type 95DSS2 Integrated Flame Scanner manual.

This English product record summarizes manufacturer-verified function, operating principle, application and exact-model matching requirements.

| Request a fast quote                                                                                                                                              | Product reference |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|---------------------------------------------------------------------------------------|
| Email: <a href="mailto:info@apterpower.com">info@apterpower.com</a><br>Phone: +86 18106909650<br><a href="http://apter.com/inquiry.php">apter.com/inquiry.php</a> | Fireye 95DSS2E-1  |                                                                                       |

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# Fireye 95DSS2E-1

InSight Expanded Dual IR/UV Flame Scanner

## Manufacturer-source product record

This record consolidates exact-model facts from the manufacturer references listed below. It is included to identify the ordering configuration before the retained source pages.

|                                 |                                                    |
|---------------------------------|----------------------------------------------------|
| Input voltage                   | 24 V DC, +10% / -15%                               |
| Supply current                  | 0.35 A                                             |
| Power requirement               | 8.5 VA                                             |
| Analog output                   | 4 to 20 mA DC                                      |
| Maximum analog-output load      | 750 ohm                                            |
| Infrared spectral range         | 700 to 1700 nm                                     |
| Ultraviolet spectral range      | 295 to 320 nm                                      |
| Modulation-frequency selections | 21                                                 |
| Programmable memory files       | 4                                                  |
| Minimum relay load              | 10 mA at 5 V DC                                    |
| Maximum DC relay load           | 2 A at 30 V DC                                     |
| Maximum CE AC relay load        | 2 A at 50 V AC                                     |
| Ambient temperature             | -40 to +65 deg C                                   |
| Internal temperature            | -40 to +81 deg C                                   |
| Relative humidity               | 0 to 95%, non-condensing                           |
| Housing weight                  | 1.96 kg for non-CG execution                       |
| Housing protection              | NEMA 4X / IP66                                     |
| Purge-air volume                | 4 SCFM (113 L/min), up to 15 SCFM (425 L/min)      |
| Electrical connection           | 12-pin quarter-turn quick disconnect               |
| Flame relay                     | SPST normally open                                 |
| Fault relay                     | SPST normally closed                               |
| Local display                   | Eight-character alphanumeric LED                   |
| Operator keys                   | Four pushbuttons                                   |
| Cable conductor set             | 12 conductors with foil wrap and braided shield    |
| Maximum cable length            | 305 m (1000 ft)                                    |
| Feature level                   | Expanded S2 with AutoTune and remote communication |
| Sensor combination              | Dual infrared and ultraviolet                      |
| Hazardous-area marking          | II 3 G/D Ex nA IIC T6                              |

|                   |                                            |
|-------------------|--------------------------------------------|
| Agency approvals  | FM and CE for the E execution              |
| Safety capability | Evaluated for SIF use up to SIL 2          |
| Self-checking     | Electronic; no mechanical shutter required |

### Official references

- Fireye CU-95 InSight Type 95DSS2 Integrated Flame Scanner manual.
- Official source: [https://www.fireye.com/downloads/CU-95-InSight\\_Type\\_95DSS2\\_Integrated\\_Flame\\_Scanner\\_English\\_2025-9-9.pdf](https://www.fireye.com/downloads/CU-95-InSight_Type_95DSS2_Integrated_Flame_Scanner_English_2025-9-9.pdf)

Only the exact configuration shown above is represented. Adjacent model variants, optional assemblies and system accessories are not treated as part of this ordering identity.

## Function, operating principle and application

The notes below explain how this product is used and how its documented signal, power or control path operates. They remain limited to the manufacturer evidence for this model.

### Function

The scanner detects burner flame energy with both infrared and ultraviolet sensing channels and provides an integrated flame-status decision.

### Operating principle

Internal signal processing evaluates the selected spectral response, flicker behavior and programmed thresholds before operating the flame relay and diagnostic outputs.

### Application

The expanded European model is used on industrial burners where dual-spectrum discrimination and an IP66 field housing are required.

### Replacement boundary

Confirm optical sighting, purge-air provision, supply and relay wiring, programmed settings, hazardous-area rating and scanner cable before commissioning.



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