

# Ultraviolet Scanner 5002-01NC

Model 5002-01NC

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The Quanta-Flame Series 5002 is intended for monitoring all gas, oil and coal-fired burners. The control is the basis for industrial or commercial burner management systems using microprocessors, PLC or relay-based hardware. All essential circuits are supervised.

- Model 5002-01NC interfaces with Preferred, Fireye, Honeywell, and PCI flame safeguard controllers or it is available with contact closure and 4-20 mA outputs interface with PLC-based and DCS-based flame safeguard systems
- High quality fused silica quartz lens
- Replacement scanner can be installed without disturbing wiring
- Status LEDs
- Flame intensity Indicator
- Output On indicator
- Self-Check indicator

## Specifications:

### Mechanical

|                      |                              |
|----------------------|------------------------------|
| Length Overall:      | 3.5" (88.9 mm)               |
| Diameter:            | 2.25" (57.2 mm)              |
| Housing:             | Machined 5052 Aluminum Alloy |
| Finish:              | Clear                        |
| Sight Tube Entrance: | 1/2" Pipe Thread             |

### Electrical

|                        |                                           |
|------------------------|-------------------------------------------|
| Supply Voltage:        | 120 VAC 50/60 Hz,<br>(depending on model) |
| Required power:        | 2 VA                                      |
| Output Contact Rating: | 230 VAC, 1 A                              |

Other models interface with Preferred and other flame safeguard amplifiers. (see wiring examples)

## Product Certification

UL file number: E233069

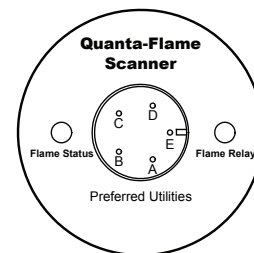
## Application

Preferred 5002-NC ultraviolet scanners are applicable to gas and light oil fired burners for boilers and process heat applications. The standard model interfaces with Preferred, Fireye, and Honeywell flame safeguard controllers. -C versions output a contact closure and 4-20 mA signal for interface with PLC and DCS-based flame safeguard systems.

While the output is activated, the FRL will illuminate. Should the flame signal fall below the minimum threshold, or should one of the internal circuits or sensing elements tests fail, the output will deactivate, and the FRL will shut off.

## Ordering Information

| Description                                                       | Catalog Number       |
|-------------------------------------------------------------------|----------------------|
| UV Flame Rod Signal Only                                          | 5002-01-NC-120F-0000 |
| Non-Self Check UV Scanner,<br>Contact Output, 120 VAC-50/60<br>HZ | 5002-01-NC-120R-0000 |



Connector view of 5002-01NC scanner showing cable pinouts



5002 Flame Scanner

Specs found here

