

SMOKE DETECTOR

SPECIFICATION SHEET

DESCRIPTION

RenewAire’s duct-mounted **Smoke Detector** continuously monitors HVAC ductwork for early signs of smoke and combustion. Highly versatile, this unit supports diverse commercial, industrial, and residential building applications. It features an array of internal alarm and trouble contacts to safeguard system operation, while providing seamless connectivity for remote accessories and flexible, jobsite-tailored air sampling infrastructure.



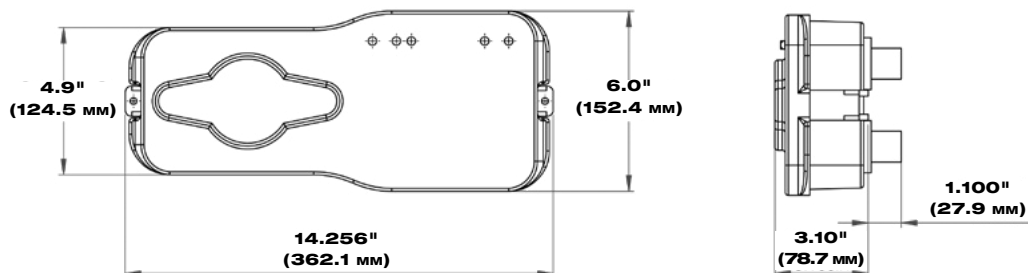
FEATURES

- ◆ **Comprehensive System Integration:** Output terminals support a wide range of remote accessories, including horns, strobes, status indicators, and test/reset key switches or pushbuttons.
- ◆ **Versatile Application Range:** Designed for reliable operation across commercial, industrial, and residential applications.
- ◆ **Flexible Air Sampling Design:** Includes 7" exhaust tube, FAST Tube sectional sampling tube starter, sampling tube end cap, mounting template, test magnet, and mounting hardware.
- ◆ **Robust Contact Configuration:** Features two sets of 10A form “C” and one set of 2A form “A” alarm contacts, plus a dedicated 10A form “C” trouble contact array to monitor head removal and supply voltage failure.

| PART NUMBER | DESCRIPTION |
|-------------|-----------------------------|
| 102396 | Duct Mounted Smoke Detector |

DIMENSIONS

Dimensions are shown in inches and mm, unless stated otherwise.



SPECIFICATIONS

| | |
|--|---|
| Supply Voltage | 24 VAC/VDC, 115 VAC, 230 VAC |
| Maximum Operating Current (Standby) | 24 VDC: 45 mA 24 VAC: 122.6 mA 115 VAC: 31 mA 230 VAC: 17 mA |
| Maximum Operating Current (Alarm) | 24 VDC: 100 mA 24 VAC: 251 mA 115 VAC: 50 mA 230 VAC: 29 mA |
| Alarm Relay Contacts | Resistive Load: 2 sets form "C" rated at 10 Amps @ 125 VAC Resistive Load: 1 set form "A" rated at 1 Amps @ 30 VDC |
| Trouble Relays Contacts | Resistive Load: 1 set form "C" rated at 10 Amps @ 125 VAC Resistive Load: 1 set form "B" rated at 7 Amps |
| Detection Head Type | Photoelectric |
| Air Velocity | 100 to 4,000 ft/minute |
| Wiring Connections/Wire Size | Screw Terminal Blocks Solid or Stranded: #14 to #24 AWG |
| Operating Temperature Range | RT-3000-P: -4°F to 158°F (-20°C to 70°C) |
| Operating Humidity Range | 10% to 93% RH (at 32°C) Non-Condensing/Non-Freezing |
| Enclosure Material | Grey plastic backbox, white plastic cover (Makrolon 94V-0) |
| NEMA Rating | NEMA 4X |
| Hardware Included* | 7" exhaust tube, FAST tube sectional sampling tube starter, sampling tube end cap, mounting template, test magnet, and mounting hardware included |
| Product Dimensions | 13.5" (342.9 mm) (L) x 5.5" (134.8 mm) (W) x 2.25" (57.15 mm) (H) |
| Product Weight | 3.5 lbs (1.59 kg)-4 to 185 °F (-20–85 °C) |