

Technology Protecting Life®

F1000-450 Discovery Heat Detector

Features

- 2 Flashing LEDs
- Rejection of Transient Signals
- 360° Visibility in Alarm



F1000-450 Discovery Heat Detector

Operating Principles

The F1000-450 Discovery Heat Detector is an anaolg addressable device that has a common profile with the F1000-550 Discovery Ionization and F1000-650 Discovery Photoelectric Smoke Detectors but has a low air flow resistance case made of self-extinguishing white polycarbonate. The Heat Detector uses a single thermistor to sense the air temperature at the detector position. The thermistor is connected in a resistor network which provides a voltage output proportional to the external air temperature.

Approvals and Listings

Underwriters Laboratories (File No. S6350) Fire Department - City of NY COA #6051

Electrical Description

The F1000-450 is designed to be connected to a two wire loop circuit carrying both data and a 17V to 28V DC supply. The detector is connected to the incoming and outgoing supply via terminals L1 & L2 in the mounting base. A remote LED indicator may be connected between the R+ & R- terminals.





Electrical Specifications

Specifications are typical and given at 24V, 23°C and 50% relative humidity unless otherwise specified.

F1000-450 Discovery Heat Detector **Detector Type:**

Rate of Rise

Ordinary Heat Detector

Detection Principle: Heat sensitive resistance

Smoke Sampling Frequency: Continuous

Supply Wiring: Two wire supply

Terminal Functions: L1 and L2; supply in and out connections

> +R; remote indicator positive connection (internal 2.2K Ω resistance to positive) -R; remote indicator negative connection (internal $2.2K\Omega$ resistance to negative).

Operating Voltage: 17 to 28 VDC

Modulation Voltage at Detector: 5 to 9 Volts peak to peak

Quiescent Current: 400µA

Power-up Surge Current: 1mA

Maximum Power-up Time: 10 seconds

Operating Temperature: 0°C to 49°C

Alarm Indicator: 2 red Light Emitting Diodes (LEDs)

Alarm Current,LED illuminated: 3.5mA

Remote Output Characteristics: Connects to positive line through 4.5KΩ (5mA maximum)

Humidity: 0% to 95% relative humidity (no condensation)

Dimensions: 4 in x 1.65 in (diameter x height)

Weight: 3.0 oz.

Materials: Housing: White polycarbonate V-O rated to UL 94

Terminals: Stainless Steel, nickel plated

Ordering Information

FIRECOM™, INC.

718.899.6100 TEL

718.899.1932 FAX

Model No. Part No. Description

F1000-450 75162 **Discovery Heat Detector**

It is our intention to keep the product information up to date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice. For more information contact: FIRECOM, INC.

