POTTER
The Symbol of Protection

# SERIES 600
## HEAT DETECTORS

**MODEL 601**

**Series 600 Product Specifications**

**UL, ULC and CSFM Listed, FM and NYBSA Approved**

**Electrical Ratings:** 6 - 125 Volts AC, 3.0 Amps
6 - 28 Volts DC, 1.0 Amp
125 Volts DC, 0.03 Amp
250 Volts DC, 0.1 Amp

**Service Use:**
National Fire Alarm Code NFPA-72

**Weight:** 1 lb. each

### Description

The Series 600 Heat Detector is attractive and durable, and features combination rate-of-rise and fixed temperature detectors. Heat detectors are available in 135°F and 200°F temperature ratings.

The pneumatic rate-of-rise element responds to a rapid rise in temperature, approximately 15°F (8°C) per minute, by expansion of air within the sealed chamber faster than it can escape through a calibrated vent. The resultant increase in pressure depresses the diaphragm, causing the electrical contact to close the circuit.

Series 600 Detector's reliable pneumatic rate-of-rise element have a wide spacing allowance of 50-foot centers, and offer added aesthetic appeal.

Fixed temperature reacts to heat by responding to a specific temperature setting.

The fixed temperature element uses a fusible alloy. When activated, the external heat collector drops away to provide quick visual confirmation that the element has operated.

All units protrude only 1 3/8" from the ceiling surface with a junction box mounting. They have pleasing contours and an all-white finish that conforms to ceiling aesthetics.

### Features:

- Easy Installation
  Secure wires to heat detector. A simple push and twist motion attaches detector to mounting plate. Reversible mounting plate for 3 1/4" or 4" octagon box, or open mounting.
- Low Profile
  Only 1 3/8" from ceiling surface with junction box mounting. White finish blends with ceiling.
- Visual Indication
  When fixed temperature element is activated, heat collector disc drops away from detector. Replacement of detector is then required.
- Operation Testing
  Rate-of-rise feature is automatically self-restoring, allowing regular testing.

### Testing Methods:

The rate of rise models can be tested by the application of quick heat from any convenient source. A portable hair dryer is recommended. However, do not apply heat that exceeds the fixed temperature rating of the detector.

The fixed temperature models cannot be tested. However, the fusible alloy element is generally considered so reliable that testing is not necessary.

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## INSTALLATION

Each detector includes a patented reversible mounting plate. In one position, it easily attaches to 4" junction box, 3 1/4" octagon box or plaster ring.

In reverse, the plate can be used for open wiring without a junction box. A 1/4" space between detector and mounting surface allows for wire connections. All mounting screws are concealed.

The detector simply attaches to the mounting plate with a push and twist motion. No tools required.

Mounting plate is molded of white self-extinguishing thermoplastic rated at 105°C. The plate is extremely strong yet adapts to uneven mounting surfaces.

## IMPORTANT NOTES

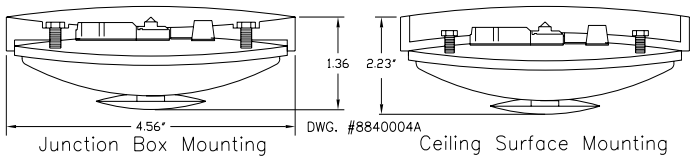
- Application: Heat detectors should be used for property protection. Reliance should not be placed solely on heat detectors for life safety. Where life safety is involved, smoke detectors must also be used.
- Battery Back-up: Heat detectors should be electronically supervised with battery back-up at the panel.
- The rate-of-rise mechanism may be subject to reduced sensitivity over time. Annual testing of the rate-of-rise operation is recommended.

## ORDERING INFORMATION

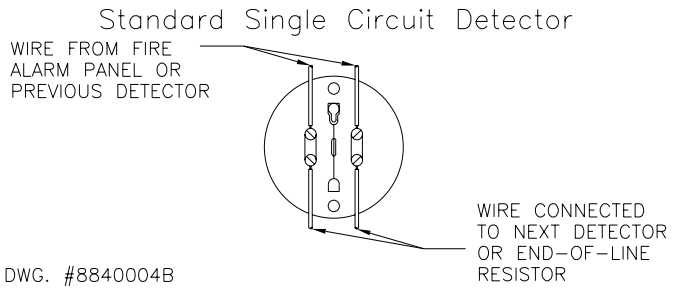
Please specify Stock Number, Model Number and Temperature Rating

| MODEL NO. | 601 | 602 | 603 | 604 |
|---|---|---|---|---|
| STOCK NO. | 1000158 | 1000159 | 1000160 | 1000161 |
| DESCRIPTION | Rate-of-Rise and Fixed Temperature 135°F | Rate-of-Rise and Fixed Temperature 200°F | Fixed Temperature only, 135°F | Fixed Temperature only, 200°F |
| APPLICATIONS | Normal temperature fluctuations and ceiling temperatures not exceeding 100°F | Normal temperature fluctuations and ceiling temperatures exceeding 100°F but not 150°F | Unusually violent temperature fluctuations and ceiling temperatures not exceeding 100°F | Unusually violent temperature fluctuations and ceiling temperatures exceeding 100°F but not 150°F |
| IDENTIFICATION ON HEAT COLLECTOR | None | Gray Ring | Gray Spot | Gray Spot and Ring |

## DIMENSIONS




## SCREW TERMINALS




NOTE: ALL SINGLE CIRCUIT MODELS COME WITH ONE (1) NORMALLY OPEN DRY CONTACT.

## INSTALLATION