GENERAL

The HD-600 Heat Detector is attractive, durable, and features combination rate-of-rise and fixed-temperature detectors. Heat detectors are available in 135°F (57°C) and 200°F (94°C) temperature ratings.

Rate-of-rise elements detect heat by quickly responding to rapid temperature increase. HD-600 detectors use the same reliable pneumatic rate-of-rise element used in former models, but offer added aesthetic appeal. 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. HD-600 rate-of-rise units have a wide spacing allowance of 50-foot (15.24-meter) centers. See Specifications table (page 2) for details.

Fixed-temperature elements react 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.

The units protrude only 1-3/8" (34.925 mm) from the ceiling surface with a junction box mounting. They have pleasing contours and an all-white finish that conforms to ceiling aesthetics.

FEATURES

- Rate-of-rise and fixed-temperature.
- One- or two-circuit, normally open.
- Easy installation.
- Low-profile design.
- Visual indication.
- Operation testing.

INSTALLATION

Each detector includes a patented reversible mounting plate. In one position, it easily attaches to a 3-1/4" (82.55 mm) octagonal box or 4" (101.60 mm) junction box. In reverse, the plate can be used for open wiring without a junction box. A 1/4" (6.35 mm) space between detector and mounting surface allows for wire connections. All mounting screws are concealed.

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

The mounting plate is molded of white self-extinguishing thermoplastic rated at 105°C. The plate is extremely strong, yet adapts to uneven mounting surfaces.
HD-600 SERIES TESTING METHODS

- Models HD-601/HD-621 and HD-602/HD-622 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.

- Models HD-603/HD-623 and HD-604/HD-624 cannot be tested. However, the fusible alloy element is generally considered so reliable that testing is not necessary.

SPECIFICATIONS

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<td>Model HD-601</td>
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<td>Model HD-621</td>
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<td>Rate-of-rise and fixed-temperature 135 F (57 C).</td>
<td>Rate-of-rise and fixed-temperature 200 F (94 C).</td>
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<td>Application: normal temperature fluctuations and ceiling temperatures not exceeding 100 F (38 C).</td>
<td>Application: normal temperature fluctuations and ceiling temperatures not exceeding 100 F (38 C) but not 150 F (66 C).</td>
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*Screw Terminals

**Standard Single-Circuit Detector**

- Wire from alarm panel or previous detector.
- Wire connected to next detector or end-of-line resistor.

**Dual-Circuit Detector**

- Used to send two independent signals.
- Wire connected to next detector or end-of-line resistor.

**NOTE:** All single-circuit models come with one (1) normally open dry contact.

**NOTE:** All dual-circuit models come with two (2) normally open dry contacts.

NOTES

**Application:** Heat detectors should be used for property protection. Reliance should not be placed solely on heat detectors for life safety. When life safety is involved, smoke detectors **MUST** also be used. Detectors must **NOT** be painted.

**Battery backup:** Heat detectors should be electronically supervised with battery backup at the panel.

**Rate-of-rise mechanism:** The rate-of-rise mechanism may be subject to reduced sensitivity over time. Annual testing of the rate-of-rise operation is recommended.

**ELECTRICAL RATINGS**

- 6-125 Volts AC, 3.0 Amp.
- 6-28 Volts DC, 1.0 Amp.
- 125 Volts DC, 0.3 Amp.
- 250 Volts DC, 0.1 Amp.