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MEA
FM



ISO 9001 Certified Management System

Description

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

Rate-of-rise detects heat by quickly responding to a rapid temperature increase. Rate-of-rise units have a wide spacing allowance of 50-foot centers. See specification table for details.

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

Series 600 Detectors use the same reliable pneumatic rate-of-rise element of 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.

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 inch from the ceiling surface with a junction box mounting. They have pleasing contours and an all-white finish that conforms to ceiling aesthetics.

Installation

Each detector includes a patented reversible mounting plate. In one position, it easily attaches to 3.25" or 4" octagonal 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 attaches easily to the mounting plate with a push and twist motion. No tools are required.



Mounting plate is molded of white self-extinguishing thermoplastic rated at 221°F (105°C). The plate is extremely strong yet adapts to uneven mounting surfaces.

Series 600 Testing Methods

Models 601/621 and 602/622 can be tested by the quick application of 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.

Model Number	Part Number	Description
601	601	No Marking 1 circuit Rate-of-Rise and Fixed Temperature 135°F (57°C)
621	621	No Marking dual circuit Rate-of-Rise and Fixed Temperature 135°F (57°C)
602	602	Gray Ring 1 circuit Rate-of-Rise and Fixed Temperature 200°F (94°C)
622	622	Gray Ring dual circuit Rate-of-Rise and Fixed Temperature 200°F (94°C)
603	603	Gray Spot 1 circuit Fixed Temperature only, 135°F (57°C)
623	623	Gray Spot 1 dual circuit Fixed Temperature 135°F (57°C)
604	604	Gray Ring and Dot 1 circuit Fixed Temperature only, 200°F (94°C)
624	624	Gray Ring and Dot dual circuit Fixed Temperature only, 200°F (94°C)



Model 601 and 621	Model 602 and 622	Model 603 and 623	Model 604 and 624
No Marking	Gray Ring	Gray Spot	Gray Ring and Dot
Model 601 (1 circuit)	Model 602 (1 circuit)	Model 603 (1 circuit)	Model 604 (1 circuit)
Model 621 (dual circuit)	Model 622 (dual circuit)	Model 623 (dual circuit)	Model 624 (dual circuit)
Rate-of-Rise and Fixed Temperature, 135°F (57°C)	Rate-of-Rise and Fixed Temperature, 200°F (94°C)	Fixed Temperature only, 135°F (57°C)	Fixed Temperature Only 200°F (94°C)
Applications: Normal temperature fluctuations and ceiling temperatures not exceeding 100°F (57°C)	Applications: Normal temperature fluctuations and ceiling temperatures exceeding 100°F (38°C) but not 150°F (66°C)	Applications: Unusually violent temperature fluctuations and ceiling temperatures not exceed 100°F (38°C)	Applications: Unusually violent temperature fluctuations and ceiling temperatures exceeding 100°F (38°C) but not 150°F (66°C)
Maximum Spacing Allowance* 50 x 50 ft - UL 30 x 30 ft - FM	Maximum Spacing Allowance* 50 x 50 ft - UL 30 x 30 ft - FM	Maximum Spacing Allowance* 25 x 25 ft - UL 20 x 20 ft - FM	Maximum Spacing Allowance* 15 x 15 ft - UL

*Refer to National Fire Alarm Code Standard NFPA 72 for application requirements

Important Special Notes

Application: Heat detectors should be used for property protected. Reliance should not be placed on heat detectors for Life Safety.

CAUTION: When life safety is involved, smoke detectors MUST also be used. Detectors must not be painted.

Battery Back-Up: Heat detectors should be electronically supervised with battery back-up at the panel.

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

Electrical Ratings

6-125 Volts A.C., 3.0 Amps
6-28 Volts D.C., 1.0 Amps
125 Volts D.C., 0.3 Amps
250 Volts D.C., 0.1 Amps

Listing/Approvals

- Listed by Underwriters Laboratories (UL)
- Factory Mutual Approved (FM)
- California State Fire Marshal Approval (CSFM)
- City of New York (MEA) Listing No. 188-94-E
- Listed by Underwriters' Laboratories of Canada (ULC)

NOTICE: The information contained in this document is intended only as a summary and is subject to change without notice. The products described have specific instructional/installation documentation, which covers various technical, approval, code, limitation and liability information. Copies of this documentation along with any general product warning and limitation documents, which also contain important information, are provided with the product and are also available from Harrington Signal Inc. The information contained in all of these documents should be considered before specifying or using the products. Any example applications shown are subject to the most current enforced local/national codes, standards, approvals, certifications, and/or the authority having jurisdiction. All of these resources, as well as the specific manufacturer of any shown or mentioned related equipment, should be consulted prior to any implementation. For further information or assistance concerning the products, contact Harrington Signal Inc. Harrington Signal Inc. reserves the right to change any and all documentation without notice. Quality manufactured for Harrington Signal Inc. Fire Alarm by Chemtronics.