

Mircom MIR-600 Series Heat Detectors



Description

Mircom's MIR-600 Series Heat Detectors are attractive, durable and feature combination rate-of-rise and fixed temperature operation. The MIR-600 heat detectors are available in 135°F(57°C) and 200°F (93°C) 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. The MIR-600 Series 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.

MIR-600 Testing Methods

Models MIR-601 and MIR-602 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 MIR-603 and MIR-604 cannot be tested. However, the fusible alloy element is generally considered so reliable that testing is not necessary.

Features

- Dual Action Rate-of-Rise and Fixed Temperature Models available
- Easy Installation
- Visual indication
- Operation Testing
- Complementary, low profile white exterior finish

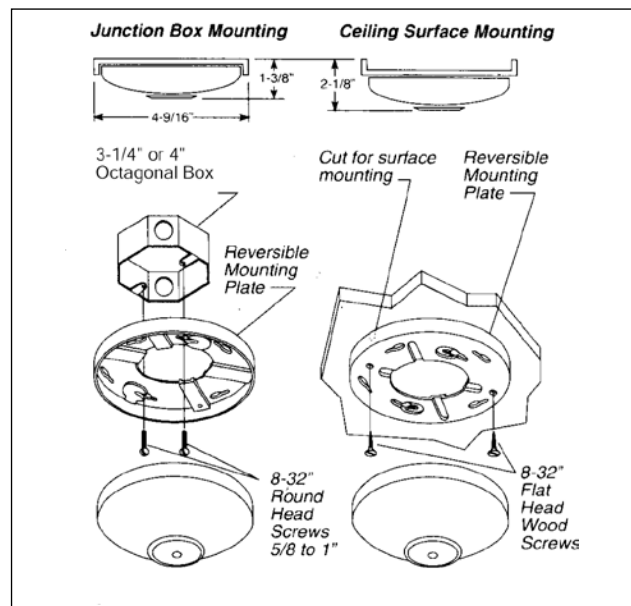
Installation

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 are required. The 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.

Mounting Diagram



S6299



S7498



7270-1477:120

MEA
approved

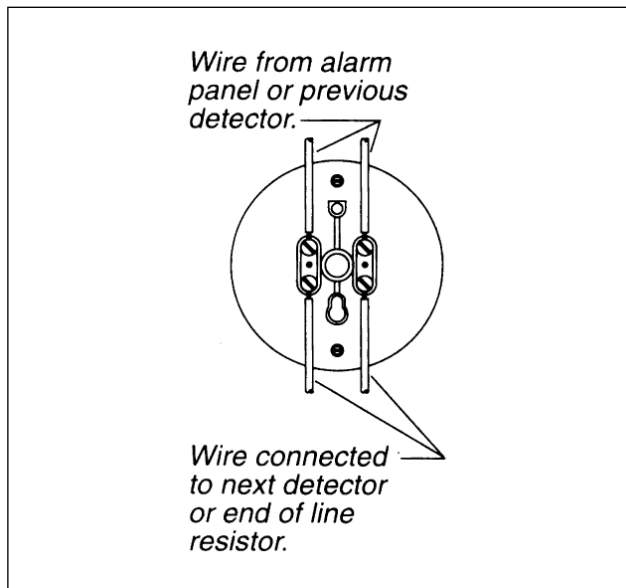
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Specifications

MIR-601	MIR-602	MIR-603	MIR-604
No Marking One Circuit	Gray Ring One Circuit	Gray Spot One Circuit	Gray Ring and Dot One 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 (38°C)	Applications: Normal tempe- rature fluctuations and ceiling temperatures exceeding 100°F (38°C) but not 150°F (66°C)	Applications: Unusually violent temperature fluctuations and ceiling temperatures not exceeding 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

Screw Terminals



IMPORTANT SPECIAL NOTES

Application:

Heat detectors should be used for property protection. Reliance should not be solely 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.

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

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.

Ordering Information

Model	Description
MIR-601	Rate of Rise and Fixed Temperature Heat Detector, 135°F (57°C)
MIR-602	Rate of Rise and Fixed Temperature Heat Detector, 200°F (93°C)
MIR-603	Fixed Temperature Heat Detector, 135°F (57°C)
MIR-604	Fixed Temperature Heat Detector, 200°F (93°C)

