

DT-3P-135

Thermal Fire Detector

ENGINEER AND ARCHITECT SPECIFICATIONS

- Alarm Indicating LED
- Simple Twist/Lock Assembly
- Alarm Lock-in
- Remote Function Output
- Screw-clamp Terminals
-  Listed, ULC Listed, FM and NYMEA Approved



Introduction

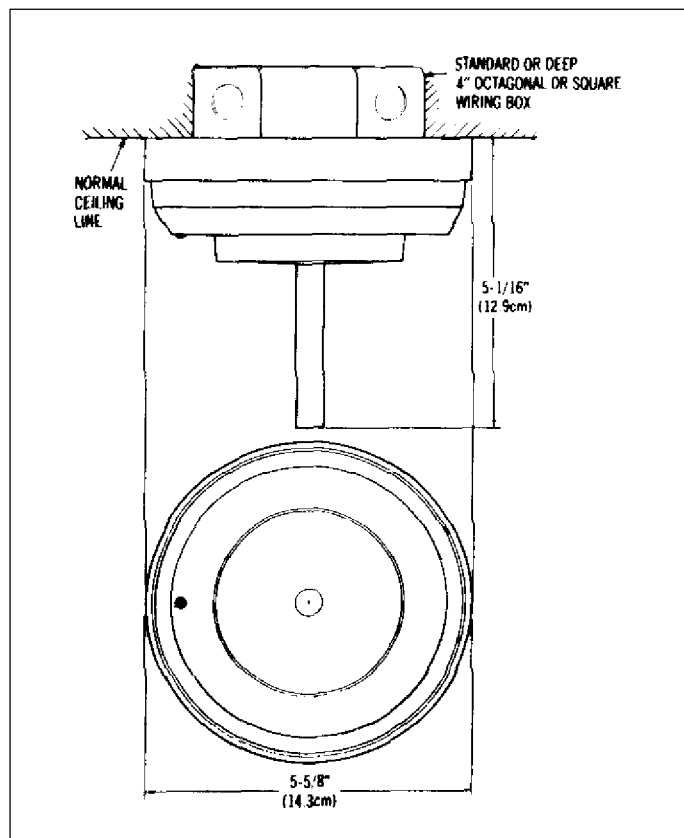
The Cerberus Pyrotronics thermal fire detector is of the rate compensation/fixed temperature type and is designed for plug-in use with the standard Cerberus Pyrotronics Series 3 detector base. Though the detector element is self restoring, the detector electronics lock in upon alarm, therefore it must be reset at the control panel. The detector rating is 135°F (58°C). A lamp is located on the base of the detector to indicate initiation of an alarm.

Underwriters Laboratories, Inc., recommends the thermal detector be used to protect a maximum of 2,500 square feet. Job conditions and engineering judgment, however, often dictate closer spacing to provide faster detection. See NFPA for detector sealing details.

Operation

The detector consists of an aluminum tubular shell containing two curved expansion struts under compression fitted with a pair of normally open, opposed contact points which are insulated from the shell. The tubular shell and struts have a different coefficient of expansion. When subjected to a rapid heat rise the tubular shell expands and lengthens slightly. At the same time the interior struts lengthen but at a slower rate than the shell. The rapid lengthening of the shell allows the struts to come together, thereby closing the contact points and initiating the alarm.

Mounting Data



When subjected to a very slow heat rise the tubular shell and the interior struts lengthen at approximately the same rate. At the detector set temperature point of 135°F (58°C), the interior struts are fully extended, thereby closing the contact points and initiating the alarm.

This thermal detector, which is shock and corrosion resistant, responds only to heat, so it is suitable for use in areas where normal conditions would prohibit the use of other types of detectors.

When connected to Cerberus Pyrotronics equipment, the detector is fully compatible with Cerberus Pyrotronics ionization detectors, photoelectric detectors, flame detectors and manual stations. Electrically, any number of thermal detectors can be used in a circuit. The limit is only subject to the practical considerations of job conditions and engineering judgment.

In addition to operating its own alarm indicating lamp, the detector can operate one remote indicating lamp or remote relay when desired.

Engineer and Architect Specifications

The thermal fire detector shall be a Cerberus Pyrotronics Model DT-3P-135 and shall be of the rate compensation/ fixed temperature type. The detector shall plug into its base and have a lamp to indicate the initiation of an alarm.

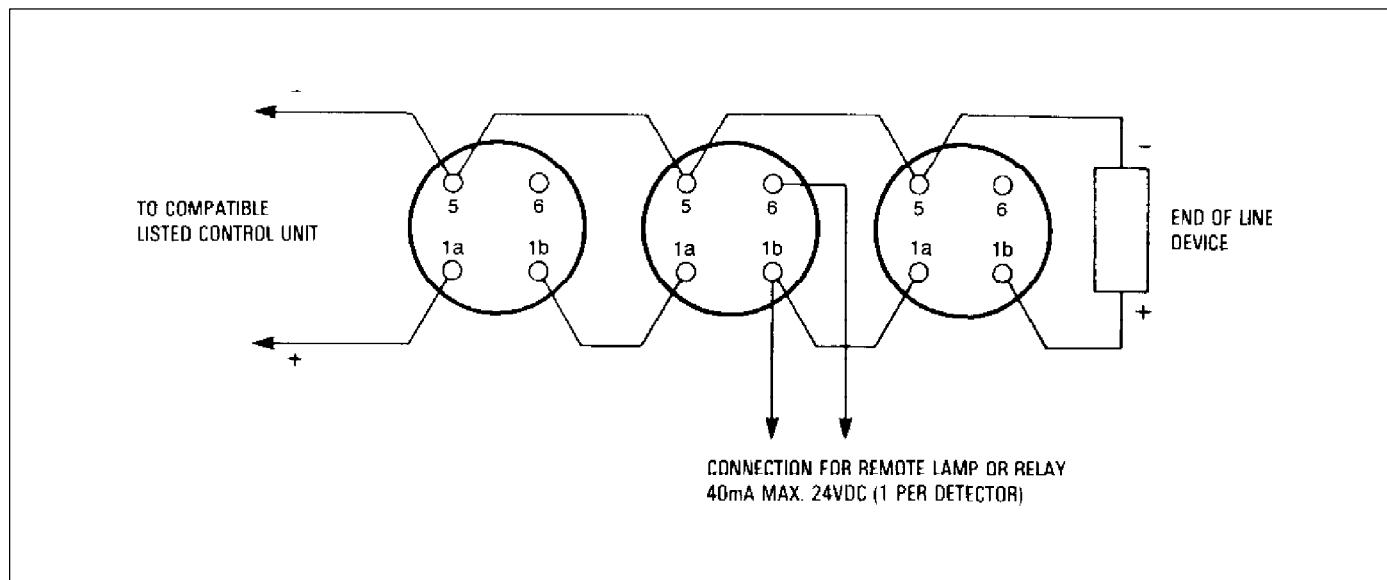
The detector shall be listed by Underwriters Laboratories, Inc. The plug-in thermal detector shall insert into the standard Series 3 base and shall be compatible with Cerberus Pyrotronics ionization detectors, photoelectric detectors, flame detectors, and manual stations on the same circuit. There shall be no limit, other than practical consideration, to the number of thermal detectors which may be installed in any one circuit.

The installing contractor shall install the detectors with #18 AWG thermoplastic wire with 300 volt insulation rating, housed in conduit or limited energy cable where permitted by local codes.

Ordering Information

Model No.	Description	Shipping Wt.	
		Lb.	Kg.
DT-3P-135	135°F Rate Compensation/Fixed Temperature, Plug-in Detector	1.5	.68
DB-3S	Low Profile Surface Mounting Base	1	.45
465-514391	Limited energy type shielded cable (for use where building codes permit detector wiring without conduit), 2-wire, 1000 ft. roll	50	22.7

Typical Wiring



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12/95
10M
CPY-IG
Printed in U.S.A.

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