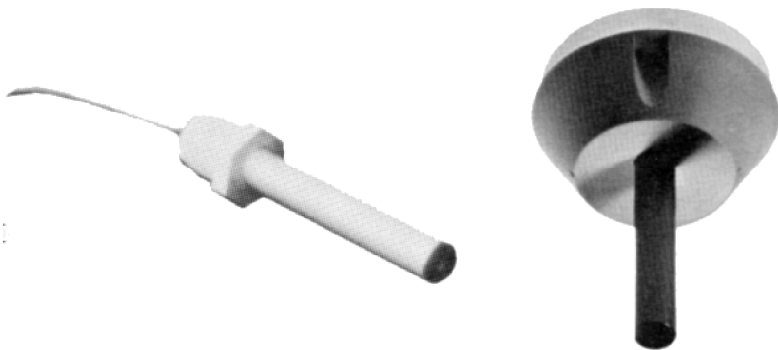


Thermal Fire Detectors

ENGINEER AND ARCHITECT SPECIFICATIONS

**Models DT-135CL, DT-200CL,
DT-135CS, DT-200CS, DT-135WP
and DT-200WP**

-  Listed, ULC Listed*
- NYMEA, CSFM, City of Chicago Approved*



Introduction

The Cerberus Pyrotronics' Thermal Fire Detectors are of the rate compensation/fixed temperature type and are designed for use with either standard Cerberus Pyrotronics' systems or other commercially available fire alarm systems. In all models the detector element is self-restoring after operation and is supplied in ratings of 135°F and 200°F.

Underwriter's Laboratories, Inc. recommends the Thermal Detector be used to protect a maximum of 2,500 square feet. Job conditions and engineering judgement, however, often dictate closer spacing to provide faster detection.

The Models DT-135CL and DT-200CL are used with Cerberus Pyrotronics' low voltage systems where it is desirable to provide visual identification of an operated detector by means of an internally mounted incandescent lamp. These models lock in upon alarm, therefore they must be reset at the control panel.

The Models DT-135CS, DT-135WP, DT-200WP and DT-200CS can be used with any fire alarm circuit of any manufacture using open circuit direct shorting type units. These units do not contain a series-connected resistor or an indicator lamp and do not lock in upon alarm. Contact ratings are 6-125 VAC, 5 Amps.; 6-25 VDC, 1 Amp.; 125 VDC, 0.5 Amps.

All Models are Underwriter's Laboratories, Inc. listed.

The DT-135WP and DT-200WP are UL listed and U.S. Coast Guard approved as weatherproof. They are furnished with leads through a plastic 1/2" NPT hub that screws into a standard W.P. junction box cover. The shell is epoxy coated.

Principle of Operation

Basically 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 the 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.

When subjected to a very slow heat rise the tubular shell and the interior struts lengthen at approximately the same rate. At the detectors' set temperature point 135°F or 200°F, the interior struts are fully extended, thereby closing the contact points and initiating the alarm.

These thermal detectors, which are shock and corrosion resistant, respond only to heat, so they are suitable for use in areas where normal conditions would prohibit the use of other Cerberus Pyrotronics detectors.

When connected to Cerberus Pyrotronics control equipment the Models DT-135CL/CS/WP and DT-200CL/CS/WP detectors are fully compatible with Cerberus Pyrotronics ionization 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 judgement.

In addition to operating their own internal alarm indicating lamps, the Models DT-135CL and DT-200CL can also operate one remote indicating lamp when desired.

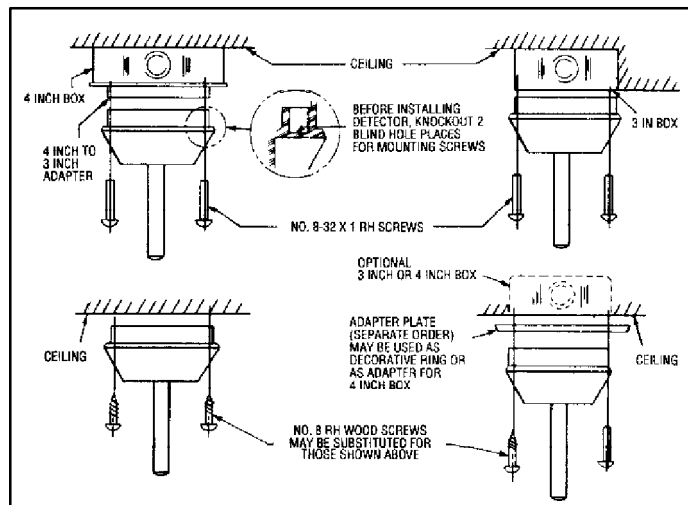
Engineer and Architect Specifications

The thermal fire detector shall be a Cerberus Pyrotronics Model DT_____ (insert model number) and shall be of the rate compensation/fixed temperature type. The detector shall be listed by Underwriter's Laboratories, Inc.

Note: The Models DT-135CL/CS/WP and DT-200CL/CS/WP thermal detectors shall be compatible with Cerberus Pyrotronics ionization 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 DT-135CL, DT-135CS, DT-200CL and DT-200CS are UL, ULC listed, CSFM, NYMEA, FM and City of Chicago approved. The DT-135WP and DT-200WP are UL listed only.

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

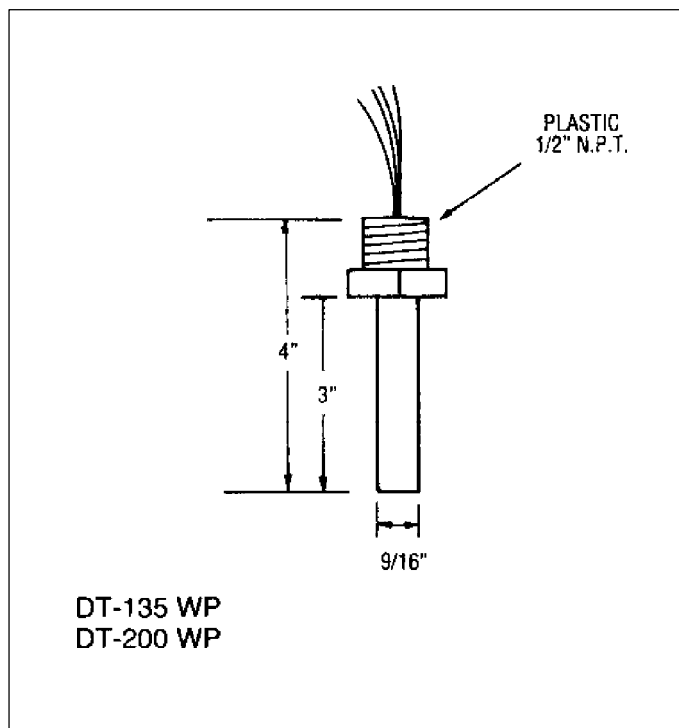
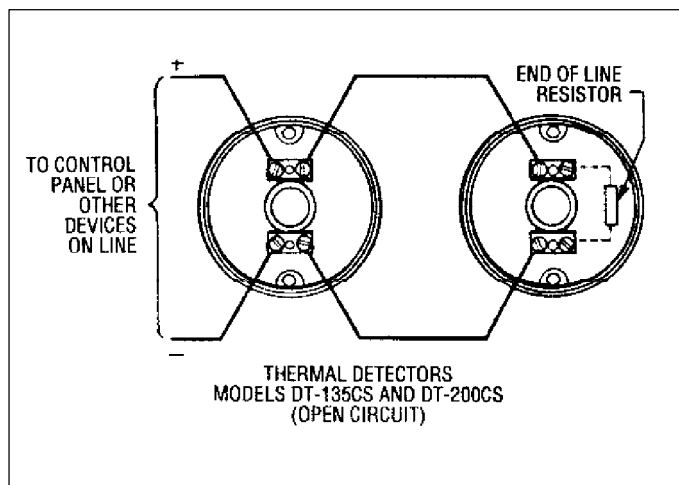
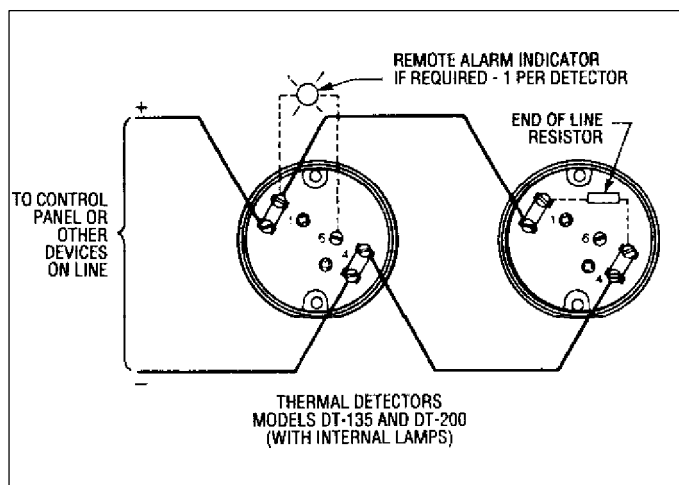


Ordering Information

Model No.	Description	Shipping Wt.
DT-135CL	135° rate compensation/fixed temperature detector with internal lamp	1 lb.
DT-200CL	200° rated compensation/fixed temperature detector with internal lamp	1 lb.
DT-135CS	135° rate compensation/fixed temperature detector, open circuit	1 lb.
DT-200CS	200° rate compensation/fixed temperature detector, open circuit	1 lb.
DT-135WP	135° rate compensation/fixed temperature detector, open circuit, weatherproof	1 lb.
DT-200WP	200° rate compensation/fixed temperature detector, open circuit, weatherproof	1 lb.
500-618020	Decorative ring or mounting adapter for 4" box	.5 lb.
465-514391	Limited energy shielded cable (for use where building codes permit detector wiring without conduit), 2-wire	

NOTICE: The use of other than Cerberus Pyrotronics detectors and bases with Cerberus Pyrotronics control equipment will be considered a misapplication of Cerberus Pyrotronics equipment and as such void all warranties either expressed or implied with regards to loss, damage, liabilities and/or service problems.

Mounting Data



Cerberus Pyrotronics
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FAX: (201) 397-7008

8/96
5M
CPY-IG
Printed in U.S.A.

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FAX: (905) 731-9182

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