


Conventional Detection Devices

Thermal Fire Detectors

Models DT-135WP and DT-200WP

ARCHITECT AND ENGINEER SPECIFICATIONS


- Rate compensation / fixed temperature
- Self-restoring
- Weatherproof
- UL Listed



WP Series
(DT-135WP, DT-200WP)

Product Overview

Thermal Fire Detectors (DT-135WP and DT-200WP) from Siemens Fire Safety are of the rate-compensation / fixed-temperature type, and are designed for use with either standard Fire Safety systems or other commercially available fire-alarm systems. The detector element for Models DT-135WP and DT-200WP is self-restoring after operation, and is supplied in ratings of 135°F (57.2°C) and 194°F (90°C).

Underwriters Laboratories, Inc. recommends the Fire Safety Thermal Fire Detectors be used to protect a maximum of 2,500 square feet. However, job conditions and sound engineering judgment often dictate closer spacing to provide faster detection.

Operation

Each thermal detector generally consists of a tubular shell containing two (2), curved expansion struts under compression fitted with a pair of normally open (N.O), 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.

Conversely, 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 on the control panel.

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 (57.2°C) or 194°F (90°C), the interior struts are fully extended, thereby closing the contact points and initiating the alarm at the control panel.

Siemens – Fire Safety's Thermal Fire Detectors, which are shock and corrosion resistant, respond only to heat. Hence, Models DT-135WP and DT-200WP are suitable for use in areas where normal conditions would prohibit the use of other Fire Safety detectors.

When connected to Fire Safety control equipment, Models DT-135WP and DT-200WP detectors are fully compatible with Fire Safety flame detectors, and manual stations.

Operation – (continued)

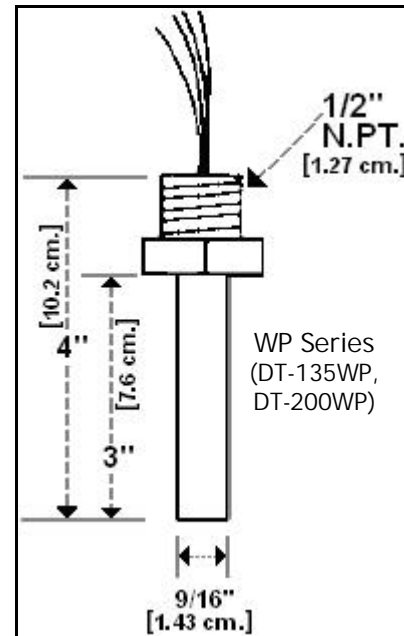
Electrically, any number of thermal detectors can be used in a circuit. The limit is only subject to the practical considerations of job conditions and engineering judgment.

Specifications

The thermal fire detector shall be a Siemens – Fire Safety Models DT135WP and DT-200WP, and shall be of the rate-compensation / fixed-temperature type. The detector shall be listed by Underwriter's Laboratories, Inc.

Models DT-135WP and DT-200WP shall be compatible with Siemens – Fire Safety 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 given circuit.

Mounting Diagram



Details for Ordering

Model	Part Number	Description	Shipping Weight	
			Lb.	Kg.
DT-135WP	500-087260	Rate Compensation / Fixed Temp. 135°F (57.2°C) Detector, Weatherproof	1.0	0.45
DT-200WP	500-087261	Rate Compensation / Fixed Temp. 194°F (90°C) Detector, Weatherproof	1.0	0.45
ADAPT PLATE	500-618020	Adapter Plate Decorator Ring	0.5	0.23

Notice: This marketing data sheet is not intended to be used for system design or installation purposes. For the most up-to-date information, refer to each product's installation instructions.