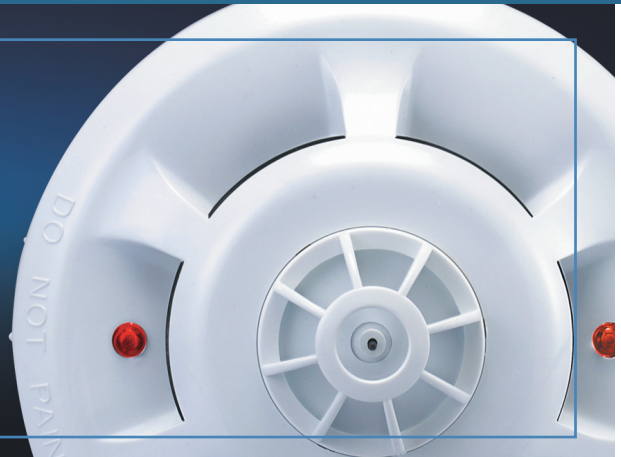


# RATE-OF-RISE FIXED TEMPERATURE HEAT DETECTOR D-133-2

Model D-133-2



## DESCRIPTION

DEMCO Heat Detector **D-133-2**'s new sensor design incorporates an internal pulsing LED as well as an advanced solid-state, low-voltage, surface-mount circuitry specially designed for 2-Wire installation using the D32003 and D34003 universal bases. The detector head can be easily installed onto the base with a simple twist-lock action.

## MODE OF DETECTION

### Rate-of-Rise

Being the first stage of detection, the Detector senses the rate-of-rise of temperature around its zone of coverage. When the rate of temperature increase exceeds 6°C within 4 seconds, the Detector instantly switches from its normally open circuit to close circuit to activate the fire alarm.

### Fixed Temperature

The Fixed Temperature method comes into action in cases of slow smoldering fire where the temperature does not increase at the rate that would trigger the Rate-of-Rise detection.

## DEMCO ADVANTAGES

- Certification/Listing-UL and CE.
- Advanced detection and discrimination algorithms.
- Advanced solid-state, low-voltage, surface-mount circuitry.
- Easy installation, testing and maintenance.
- Sleek low-profile housing design.
- Flashing LED in standby mode.
- Robust and reliable sensor head.
- Two red LEDs to allow 360-degree viewing.

## UNIVERSAL BASE

The D32003 and D34003 universal bases are designed for the D-133-2 series of detectors. Both bases are electronics-free. Their simple and robust design enable a detector to be plugged in without any need for force – particularly useful when installing onto suspended ceiling.

Being designed as common base, both of these units allow detector interchange within the series.



Shown with 2 contact points (D32003).

Shown with 4 contact points (D34003) for a remote LED indicator.

## SPECIFICATIONS/OPTIONAL FEATURES

Model	Voltage DC (Max./Min.)	Standby Current (Max.)	Alarm Current (12/24V)	Surge Current (Max.)	Temperature Rating	Permissible Current (Max.)	Frequency	Base Model No.	Safety
D-133-2	10.8-33V	40µA	20/50mA	100µA	135°F/57°C	80mA	1-3 Sec.	D32003	UL/CE
D-133-2L	10.8-33V	40µA	20/50mA	100µA	135°F/57°C	80mA	1-3 Sec.	D34003	UL/CE

Remarks: L = Remote LED indicator output

Response Temperature	Rate-of-Rise and Fixed temperature: 57°C (135°F)
Ceiling Spacing	40-50 foot (12-15 meter rating for heat detector)
Reset Voltage	Less than 1 volt
Alarm Indicator	LED continuously emitting red light
Remote Output	25mA max., diode gate
Temperature Range	-10°C to 50°C
Permissible Current	80mA max.
Humidity	0 to 95% RH, no condensation or icing
Alarm Contact	(for 4-wire) NO or NC Operation, Form A: 1.0A@30VDC/0.5A@125VAC
Dimensions (H x D)	46 X 100mm with base
Weight	120g/set with base

Specifications are subject to change.

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