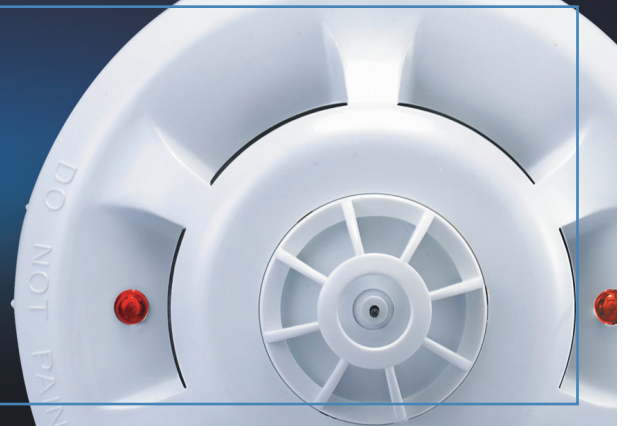


RATE-OF-RISE FIXED TEMPERATURE HEAT DETECTOR D-133-2

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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