

# DC-HD Conventional 135°F Fixed Temperature/ Rate-of-Rise Heat Detector

## DC-HD

### STANDARD FEATURES

- *UL Listed*
- *FM Approved*
- *Fixed Temperature 135°F (57°C) With Rate-of-Rise*
- *UL Listed Spacing up to 60 ft. by 60 ft.*
- *2 or 4-Wire Bases Available*
- *Highly Stable Operation, RF/Transient Protection*
- *Low Standby Current: 35µA nominal*
- *Two Built-In Power/Alarm LEDs for 360 Degree Viewing*
- *Fully Electronic Operation*
- *Power/Alarm LEDs Confirm Detector Status*

### DESCRIPTION

The Kidde® DC-HD 135°F Fixed Temperature/Rate-of-Rise Heat Detector is suited for installation where high heat output fires are expected or in areas where ambient conditions would not allow use of other detection methods. Heat detectors are intended for protection of property. **Do not solely rely on heat detectors for life safety protection.** Where life safety is a concern, smoke detectors must also be used. A Kidde Fire Systems UL Listed fire alarm panel must electronically supervise DC-HD Heat Detectors.

### OPERATION

The Kidde DC-HD 135°F Fixed Temperature/Rate-of-Rise Heat Detector is suited for detection in the presence of slow or fast rising temperatures due to burning combustibles. The construction of the detector incorporates a thermistor heat element protected from damage by the built-in, durable plastic guard.

Two Power/Alarm LEDs are incorporated for 360 degree indication of status. In Standby condition, the power LEDs flash green. In an Alarm condition, the LEDs latch on red.

The DC-HD electronic heat detection circuitry performs the same function as a mechanical device but with electronic precision. If the heat rise is *less* than 12°F per minute, the detector will not alarm until it reaches its alarm temperature of 135°F ± 7.5°F. If the heat rise is *greater* than 12°F per minute, the detector will alarm immediately, giving an early warning signal and latching the red alarm LEDs on.



### AVAILABLE BASES

- Use the DC-SB6 base for two-wire applications.
- Use the DC-SB6-4W base for four-wire applications.

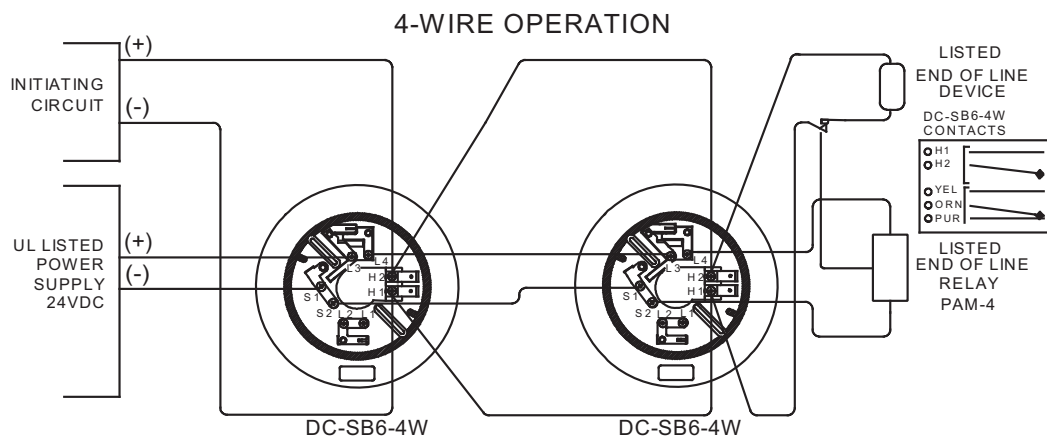
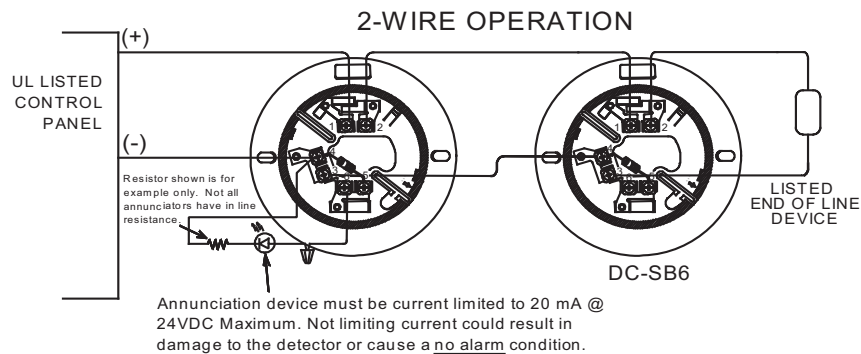
## SPECIFICATIONS

|                       |  |
|-----------------------|--|
| Response              | 135°F ± 7.5°F (57°C ± 4 °C)                          |
| Supply Voltage        | 17.7 - 30.0 VDC (4 Wire)<br>15.0 - 33.0 VDC (2 Wire) |
| Contact Rating        | Normally Open (N/O) Contacts<br>150 mA max. @ 24VDC  |
| Supervisory Current   | 40 µA @ 24 VDC                                       |
| Surge Current         | 160 µA max. @ 24 VDC                                 |
| Alarm Current         | 150 µA max. @ 24 VDC                                 |
| UL Listed Temperature | 32°F to 100°F (0°C to 37.8°C)                        |
| Color & Case Material | Bone PC/ABS Blend                                    |

## ORDERING INFORMATION

|               |  |
|---------------|--|
| DC-HD         | Fixed Temperature/Rate-of-Rise Heat Detector, 135°F  |
| DC-SB6        | Conventional 2-Wire Base for DC Series Detectors, 6-in. diameter (supports remote LED Alarm Indicator) |
| DC-SB6-4W     | Conventional 4-Wire Base for DC Series Detectors, 6-in. diameter                                       |
| PAM-4         | EOLR 12/24 Power Supervision Module, 9 - 40 VDC (for 4-wire applications)                              |
| 70-200000-911 | Model RA-911 Remote Alarm Indicator (for 2-wire detectors only)  |

## DIAGRAMS



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