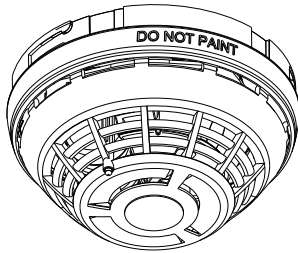


# KIR-HD Intelligent Fixed-Temperature and Rate-of-Rise Heat Detector Installation Sheet



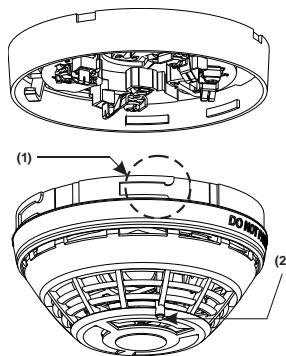
## Description

The model KIR-HD Intelligent Fixed-Temperature and Rate-of-Rise Heat Detector that contains a fixed-temperature heat sensor to detect heat from fire. The heat sensor monitors the temperature of the air in its surroundings and the detector analyzes the data to determine whether to initiate an alarm.

**LED indicator.** The LED indicator (see Figure 1) displays the following states:

- Normal: Green LED indicator flashes, no action
- Alarm/active: Red LED indicator flashes, evacuate the area

**Figure 1: KIR-HD features**



- (1) Self-locking tab
- (2) LED indicator

## Installation

Install and wire this device in accordance with applicable national and local codes, ordinances, and regulations.

### WARNINGS

- Independent studies indicate that heat detectors should only be used when property protection alone is involved. Never rely on heat detectors as the sole means of fire protection.

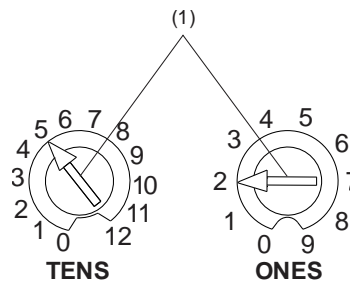
### Note:

- To ensure proper operation, store the detector within the recommended ranges. Allow the detector to stabilize to room temperature before applying power.
- The dust cover (supplied) must remain on the detector during installation and be removed prior to commissioning and service. The dust cover is not a substitute for removing the detector during new construction or heavy remodeling.
- This detector does not operate without electrical power. As fires frequently cause power interruption, discuss further safeguards with the local fire protection specialist.
- This detector does not sense fires in areas where heat cannot reach the detector. Heat from fires in walls, roofs, or on the opposite side of closed doors may not reach the detector.
- This detector by itself does not provide smoke or fire protection. Use this detector with ionization or photoelectric smoke detectors, or both.
- This detector does not detect oxygen levels, smoke, toxic gases, or flames. Use this device as part of a broad-based life safety program, which includes a variety of information sources pertaining to heat and smoke levels, extinguishment systems, visible and audible devices, and other safety measures.
- In Canada, install according to CAN/ULC-S524 *Standard for the Installation of Fire Alarm Systems*, CSA C22.1 *Canadian Electrical Code Part 1*, and the local authority having jurisdiction.

### To install the detector:

1. Install and wire the base, as described on the installation sheet supplied with the base.
2. Set the detector address. Refer to the panel technical reference manual for a list of valid addresses. Use a screwdriver to adjust the two rotary switches on the back of the detector. (See Figure 2.) Set the left rotary switch (0 through 12) for the 10s and 100s digit and the right rotary switch for the 0 through 9 digit.
3. Attach the detector to the base by rotating the detector clockwise until it snaps into the locked position.

**Figure 2: Setting detector address (address 52 shown)**



- (1) Insert a screwdriver here to set the address

## Testing

Before testing, notify the proper authorities that the fire alarm system is undergoing maintenance and will be temporarily out of service.

Test each sensor in the detector.

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**Caution:** Heat damage. Excessive heat may damage the detector outer cover. Do not apply excessive heat when using a hair dryer. When using a Testifire detector tester, you must install a Testifire Adapter Assembly.

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Make sure the Testifire Adapter Assembly (model SIGA2-TSTSPACER) is installed in the Testifire detector tester before testing. Refer to the *Testifire Adapter Assembly Installation Sheet* (P/N 3101942-ML) for further details.

### To perform an initial installation test:

1. Remove the detector from its base and verify that the proper detector address, trouble signals, and messages are reported.
2. If wired for Class A operation, verify that the detector continues to operate first with SLC\_IN disconnected, reconnect SLC\_IN and then with SLC\_OUT disconnected. (Refer to the installation sheet for the base.)
3. Place a momentary ground fault on the SLC to verify operation of the ground fault detection circuitry.
4. Run a system detector maintenance report on all detectors and verify that the readings fall within acceptable limits.
5. Perform a sensor function test, as described below.

### To perform a function test:

1. If desired, use the fire alarm control panel to put the detector or zone into a service group for testing. (Refer to the panel technical reference manual for instructions.)
2. Activate the heat sensor using a hair dryer (maintaining a distance of three inches) or using a Testifire detector tester per the manufacturer's instructions.

## Maintenance

To ensure proper operation, plan maintenance in accordance with the requirements of the authority having jurisdiction. Refer to CAN/ULC-S536 *Standard for the Inspection and Testing of Fire Alarm Systems* and NFPA 72 *National Fire Alarm and Signaling Code*.

Refer to application bulletin P/N 3102534-EN for additional information and cleaning instructions.

## Specifications

Operating voltage	15.20 to 19.95 VDC
Current	
Normal operating	51 $\mu$ A
Alarm	68 $\mu$ A
Vibration level	10 to 35 Hz, with an amplitude of 0.01 in.
Maximum spacing	50 ft. (15.2 m) centers
Compatible bases	
Standard	KI-SB, KI-SB4
Relay	KI-RB, KI-RB4
Isolator	KI-IB, KI-IB4
Audible	KI-ABST, KI-ABDT, KI-ABLT
Compatible detector testers [1]	Testifire 2000
Operating environment	
Temperature	32 to 100°F (0 to 38°C)
Relative humidity	0 to 93% noncondensing
Storage temperature	-4 to 140°F (-20 to 60°C)

[1] Requires the SIGA2-TSTSPACER Testifire adapter assembly.

## Regulatory information

North American standards	CAN/ULC-S530-M91, UL 521
UL and ULC fixed-temp alarm rating	135°F (57.2°C)
Actual alarm point	129 to 141°F (53.9 to 60.6°C)
FCC compliance	This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
Industry Canada compliance	This Class A digital apparatus complies with Canadian ICES-003.

## Contact information

For contact information, see [www.kidde.com](http://www.kidde.com).