

## Conventional Rate of Rise and Fixed Temperature Heat Detector

DC-9103E-KID



### Overview

DC-9103E-KID is the new Generation of Conventional Rate of Rise and Fixed Temperature Heat from KIDDE. The DC series Detectors have a microprocessor and use Advanced Algorithms to reliably Detect Fire alarm conditions.

By Default, the DC-9103E-KID is supplied as an A1R class Heat Detector. Using the Handheld Programmer, the installer can easily program the device as an A2S or BS Detector without the need to carry 3 different heat detectors to a site.

### Connection and Wiring

The detector bottom is shown in Fig. 1 and the base in Fig. 2

There are four terminals with numbers on the base:

- 1: Detection zone positive IN
- 2: Detection zone positive OUT
- 3: Detection zone negative IN and OUT
- 2: Positive Terminal of remote indicator
- 4: Negative terminal of remote indicator

FIGURE 1

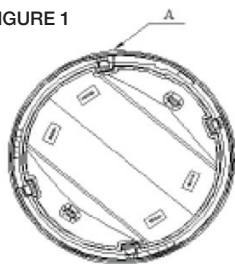
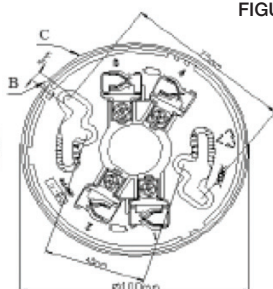


FIGURE 2



Fix the base with two taping screws. Then align A (Fig. 1) with the bottom of the detector to B (Fig. 2) of the base, and rotate the detector clockwise to mark C.

### Standard Features

- 3 classes programmable.
- Magnetic test function.
- Output terminal for remote indicator.
- Complying with AS7240.5

### Installation

Mounting of the detector is shown in Fig. 3

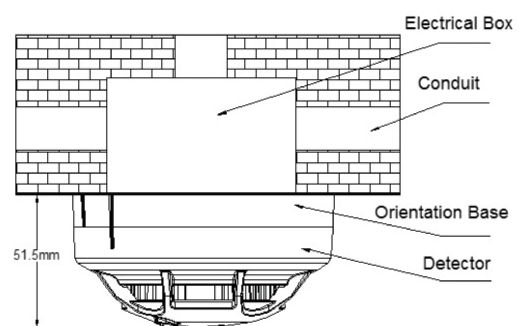


FIGURE 3

**Note:** To operate correctly, the DC-9103E-KID must be connected to a compatible fire alarm control panel. Connecting the heat detector directly to 24VDC will damage the detector.

The default class of the detector is A1R and polling LED status is 'ON', which can be modified using P-9910B hand-held programmer.

**Programming or Reading the Detector:** Connect the hand-held programmer to the heat detector terminals '1' and '3' using the clips provided.

**Unlocking the Programmer:** Turn the programmer on and enter the unlock pin '456' and press 'clear', a '0' should appear on the LCD.

**Program Heat Detector Class:** To change the class, press the 'Function' key followed by '4'. A '-' should appear on the LCD. Enter: '2' for A1R, '3' for A2S, or '5' for BS, followed by the 'Program' button. Once complete, there will be a 'P' shown on the LCD, indicating its class is programmed.

TABLE 1 - PARAMETERS SETUP

Parameter	Smoke Sensitivity	Polling LED Status
2	A1R	ON
3	A2S	ON
5	BS	ON

**Read Heat Detector Class:** When the programmer is in a standby state, press the 'Test button'. 'L' will appear followed by an address for the detector. Pressing 'Up' will scroll through the detector sensitivity level, device type and heat detector class. For these Conventional Heat Detectors the detector address is not applicable. Sensitivity level is usually the same as the detector and the device type is '1', smoke detector

**Locking the Programmer:** press 'Clear' and enter locking pin '789' followed by 'Clear' to exit.

When the detector is connected to the KID1xxA conventional FDCIE or a addressable zone monitor unit, a 4.7kΩ end of line resistor is to be fitted at the last DB-01 base on the circuit. See Fig. 4.

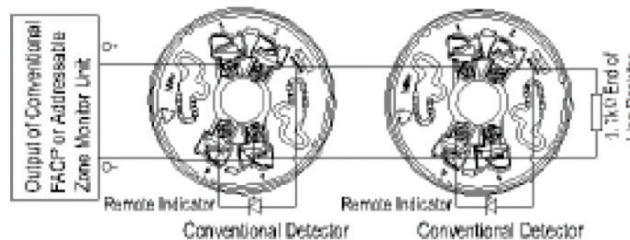


FIGURE 4

## Testing

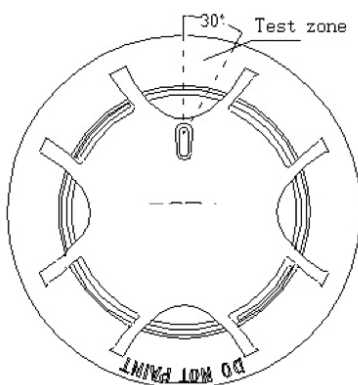


FIGURE 5

**Note:** Before testing, Ensure the detector is properly installed and powered up. Testing can only commence after the detector is powered up for a minimum 10 seconds.

The detector must be tested after installation and regular maintenance as per local code. The two methods are as follows:

- (1) Reed switch testing - Place the commission tool on the testing area of the detector as shown in Fig. 6, hold for several seconds until the detector is in alarms.
- (2) Smoke test - Apply the detector smoke tester to the detector until it alarms.

On completion of test, reset the detector at the FDCIE.

If a detector fails during testing, follow the steps outlined in the Maintenance section, and retest it. If it still fails, replace the detector .



## Kidde Australia Pty Ltd

ABN 68 006 252 428

Building F, Unit 1  
3-29 Birnie Avenue  
Lidcombe NSW 2141  
Australia  
1800 654 435

www.kidde.com.au

©2025 Kidde, All rights reserved.

## Maintenance

Before performing maintenance ensure the proper authorities are notified that the system is undergoing maintenance and will temporarily be out of service. Disable the zone or system undergoing maintenance to avoid any unwanted alarms.

Prior to commissioning ensure the dust covers are left on the detectors and measures are taken to keep the detectors free from dust, dampness and corrosion.

Detectors should be cleaned at least once a year to ensure normal operation of the system.

The detector should be tested after any cleaning or when replaced.

Protect the metal component on the PCB against damp and improper distortion.

## Specifications

Operating Voltage	24VDC (16VDC~28VDC)
Standby Current	≤60μA
Alarm Current	≤55mA
Fire LED	Red, periodically flash once in polling when the status is set to "ON"; no illumination when the status is set to "OFF". Periodically flash twice in fault; steady illumination when in alarm.
Remote Indication Output	Polarity-sensitive, directly connecting with remote indicator (built in 10k resistor in series, maximum output current is 2.0mA);
The remote indicator does not illuminate in normal and flashes in alarm.	2V (peak to peak value)
Class and Setup	Classes A1R, A2S, BS programmable.
Maximum Ripple Voltage	2V ( peak-to-peak)
Alarm Reset	Instantaneous cut-out (10s Min, 1.0VDC Max.)
Wiring	Polarised two wire
Ingress Protection Rating	IP2X
Ambient Temperature	Class A1: -10°C~+50°C Class A2: -10°C~+50°C Class B: -10°C~+65°C
Typical Fixed Temperature	Class A1: 58°C Class A2: 62°C Class B: 77°C
Relative Humidity	≤95%, non-condensing
Material	ABS
Dimensions	Diameter: 100mm Height: 53.3mm (with base)
Mounting Hole Spacing	45mm~75mm
Weight	About 110g (with base)

## Accessories and Tools

Model	Name	Remarks
P-9910B	Handheld Programmer	Order separately
DB-01	Base	Order separately

## Ordering Information

Part Number	Description
DC-9103E-KID	Conventional Rate of Rise and Fixed Temperature Heat Detector