PRODUCT DOCUMENT

KI-IB — User Manual

Kidde KI-IB Detector Mounting Base with Fault Isolator • Operating, wiring & troubleshooting reference

1. Product identification

The KI-IB and KI-IB4 are Kidde KI-Series isolator detector bases. Their primary function is to isolate a short circuit on a Class A loop while keeping the remainder of the loop available for communication.

2. How the isolator works

When a short occurs, all isolators on the line open within 23 milliseconds. Beginning from the side of the Class A circuit nearest the loop controller, isolators then close at 10 millisecond intervals to restore power farther along the loop. When the isolator adjacent to the short closes, it reopens within 10 milliseconds. The process then continues from the other side of the loop.

3. Wiring / installation

Item	Documented information
Circuit	Class A fire alarm circuit
Base variants	KI-IB and KI-IB4
Detector requirement	Detector must be installed for isolator operation
Remote LED	GSA-LED remote LED not supported
Wiring access	Room-side accessible terminals
North American mounting	1-gang, 3½-inch/4-inch octagon, and 4-inch square boxes; KI-IB4 includes trim skirt
European mounting	BESA and 1-gang boxes with 60.3 mm fixing centers

4. Maintenance and troubleshooting

Fault remains isolated: verify the short has been cleared and check the affected wiring section.
Unexpected loop fault: inspect Class A wiring, device connections and the affected detector/base.
Detector not communicating: verify detector seating, polarity/connection and panel configuration.
Remote LED expected but inactive: KI-IB does not support the GSA-LED remote LED; use the appropriate standard base where a remote LED is required.

5. Safety

Fire alarm equipment is life-safety equipment. Installation, testing and servicing should be performed by qualified personnel in accordance with Kidde documentation, approved project drawings and applicable authority requirements.

Source note

Manufacturer-published Kidde/UTC documentation identifies KI-IB and KI-IB4 as isolator detector bases with a built-in line fault isolator for Class A circuits. A detector must be installed for the isolator to operate, and the isolator base does not support the GSA-LED remote LED. Manufacturer documentation describes the 23 ms opening and 10 ms reclose sequence.