Brooks Isolator Base

for EIB160e Series &

EIB140RC Series

Model: EIBPLATE

Contents

1. Overview

The "EIBPLATE" mounting plate retains all the functionality of standard mounting plate but has additional features required where the isolator function is to be used. It can be easily distinguished from the standard plate by the yellow label.

Identification Label

EIBPLATE Terminals

The **EIBPLATE** base separates the battery negative and neutral connections to provide a 4 wire circuit where the isolator feature is required in the smoke / heat alarm systems, i.e. Brooks Isolator **BAAISO**, **BAATLS** and **Alarm 2000** systems. The Smoke / Heat Alarm attaches to the **EIBPLATE** in a similar way as the standard mounting base.

2. Compatible Products

The EIBPLATE is compatible for heat and smoke alarm systems where the BAAISO or BAATLS module is used or where connected to an alarm 2000 residential control panel
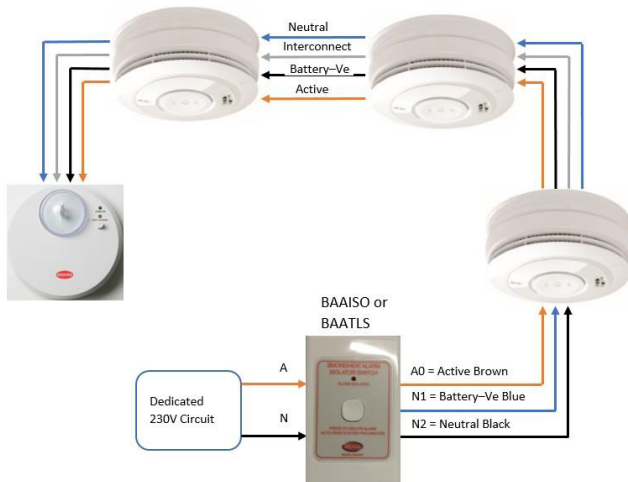
Warning: The standard EIB160e / EIB140RC mounting plate **CANNOT** be used in a four wire Smoke / Heat alarm system and must be replaced with the isolator base **EIBPLATE.**

EIBPLATE must be installed by a licensed electrician.

Model No.	Description
BAAISO	Push button switch used to silence all smoke/heat alarms for approximately 5 minutes.
BAATLS	Three indicating buttons to control and test mains powered smoke / heat alarm systems, functions available are "TEST", "LOCATE" and "SILENCE".
ALARM 2000	ALARM 2000 system controls and monitor multiple smoke / heat alarms for residential applications

Brooks Alarm Isolators

Neutral
Interconnect
Battery–Ve
Active

BAAISO or
BAATLS

A

Dedicated
230V Circuit

N

A0 = Active Brown
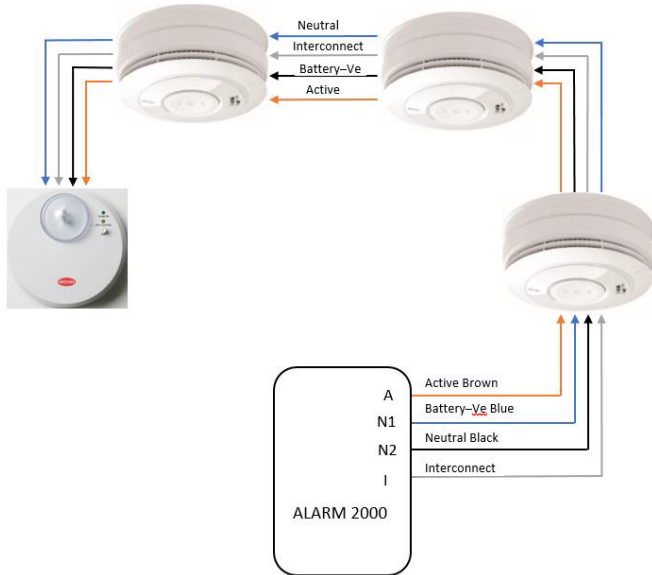N1 = Battery–Ve Blue
N2 = Neutral Black

Alarm Isolators (BAAISO & BAATLS) connection diagram

5

Brooks recommends to connect 230V AC mains power to **BAAISO** or **BAATLS** mains input terminal from a dedicated circuit.

Procedures to connect Brooks Isolators to mains powered smoke / heat alarms:

1. Connect Active and Neutral from a dedicated circuit to Brooks isolator input terminals **A** and **N** respectively.
2. Connect the isolator output terminals to the first **EIBPLATE** as follows:

    - Active terminal **A0** to **L** terminal of the alarm.
    - Battery terminal **N1** to earth separate terminal marked B
    - Neutral **N2** to **N** terminal of the Alarm.

3. Connect the interconnect terminal **IC** between the first Alarm and all other connected Alarms.

Neutral

Interconnect

Battery–Ve

Active

A — Active Brown

N1 — Battery–Ve Blue

N2 — Neutral Black

I — Interconnect

ALARM 2000

Alarm 2000 connection diagram

7

The mains powered Smoke / Heat Alarms must be connected to **Alarm 2000** residential control panel using 4 wires from the panel to the last Alarm.

Connect **Alarm 2000** to every Smoke / Heat Alarm as follows:
- Active terminal **A** to **L** terminal in the isolator base **EIBPLATE.**
- Battery terminal **N1** to the separate earth terminal marked **B.**
- Neutral **N2** to **N** terminal.
- Interconnect **I** to **IC** terminal.

Note: this guide is for quick referencing only. You must read the user manual of EIB160e series or EIB140RC series before installation and use.

WARNING

Mixing the Active and Neutral (or Battery –ve) connections will damage the alarm.

Ensure that the same colors are used throughout the premises for Active, Neutral, Battery negative and Interconnect wires

WARNING

Mains isolator base must be installed by a **licensed electrician** as per the requirements of AS3000.

Failure to install the isolator base correctly may expose the user to shock or fire hazards.

This unit is not waterproof and must not be exposed to dripping or splashing liquids.

WARNING

Brooks Isolator model **BAAISO** and **BAALTS** as well as **Alarm 2000** are mains powered units, failure to install and wire these units correctly may expose the installer to a shock or fire hazard

Fixing & Wiring

Ensure the AC mains supply to the circuit that is going to be used is disconnected.
Select a suitable location for the Smoke/Heat Alarm as per the product instruction leaflets. Make a small penetration in the ceiling for the associated wiring. Remove the cover from the terminal block as shown here.
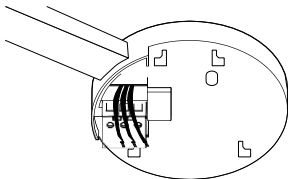
INSERT SCREWDRIVER TO
LIFT AND REMOVE WIRE COVER
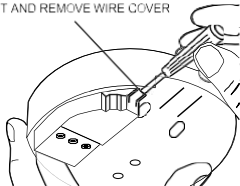
To connect the EIBPLATE isolator base, bring the wires through the ceiling and thread them through the hole in the rear of the **EIBPLATE.**
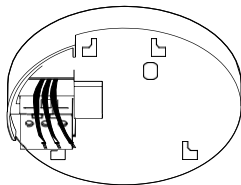
If the mains wiring is surface mount break the knockout provided and trim to accommodate the surface ducting or conduit.

To prevent air flows affecting the smoke/heat alarm it is important to seal the area around the hole in the ceiling with foam or silicon rubber.
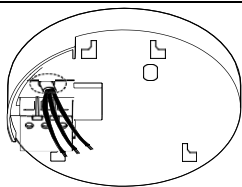
Screw the **EIBPLATE** to the ceiling using a single screw for now. The second screw should be inserted at the end of this procedure to secure the base permanently.
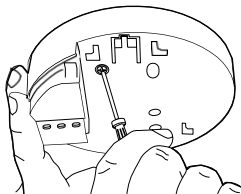
Connect the wiring from the Isolator module or alarm 2000 to the terminal block of EIBPLATE as follow:

L: Live - connect to the Active incoming wire from the Isolator **A0.**

N: Neutral - connect to the Neutral incoming wire from the Isolator **N2.**

B: Battery -ve - connect to the battery -ve incoming wire from the Isolator **N1.**

IC: Interconnect- connect to **IC** of the next Alarm

Insert second screw and tighten both screws on the base and replace the terminal cover.

Brooks Australia PTY Ltd.
4 Pike Street, Rydalmere NSW 2116
Australia
Telephone: 0296841466
www.brooks.com.au

Ei Electronics
Shannon Industrial Estate,
Shannon, Co. Clare, Ireland.
Telephone: +353 (0)61 471277
www.eielectronics.com