Base Adapter BWB-110

Interactive Fire Detection Systems
Product Datasheet

Features

- Allows simple retrofit of older conventional and analogue addressable detection loops of type BS-100, BX-10, etc.
- Easily mounted onto detector bases BWA-40, BWA-40A and BWA-40A/1
- Prepared for the mounting of all base-mounted interactive detectors, including series 200, 300 and 500

Application/Description

The Base Adapter makes it simple to upgrade existing Autronica conventional (BX-10) and analogue addressable (BS-100) detection loops.

Instead of replacing all detector bases BWA-40, BWA-40A and BWA-40A/1 on older detection loops with new ones, simply remove the old detector, re-wire, mount the Base Adapter and fit the new interactive detector directly onto the Base Adapter.

The Base Adapter is prepared for the mounting of all base-mounted interactive detectors, including series 200, 300 and 500.
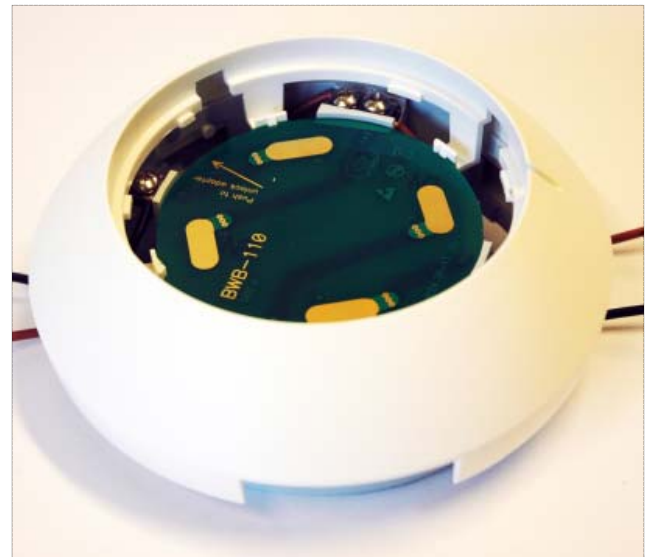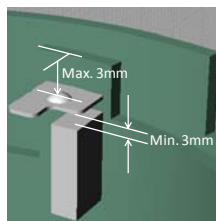
Connections Overview
The following connections apply to both analogue addressable and conventional systems.

Terminal no.	Description
1	+ IN
2	+ OUT
3	- IN
4	(NA)
5	(NA)
6	- OUT

Technical specifications	
Dimensions (mm)	151,5x151,5x42
Weight (g)	100
Materials	Enclosure: Plastic Printed Circuit Board: FR4
Mounting	Onto detector base BWA-40, BWA-40A and BWA-40A/1
Operating temperature	-20 to +70 °C
Storage temperature	-20 to +70 °C
Humidity	< 10 to 90% non-condensing

Part number	Description
116-BWB-110	Base Adapter

In connection boxes used for branch-offs it may be difficult to distinguish between wires belonging to detection loops and branch-offs. Use the Loop Diagnostic Tool AS2000 to provide power to the loop in order to measure which cables belong to the main loop.

IMPORTANT:
To ensure proper contact between existing base and Base Adapter, make sure that either of the distances from the spring to the edges are as indicated on the illustration. If not, bend the spring gently in the appropriate direction.

BWA-40 provides double springs which usually do not need to be adjusted unless they are deformed.

Upgrading Analogue Addressable Detection Loops

To mount the Base Adapter BWB-110 onto an existing detector base on an analogue addressable detection loop (for information on the connection to conventional systems, see "Connection Overview" on opposite page), follow the procedure below:
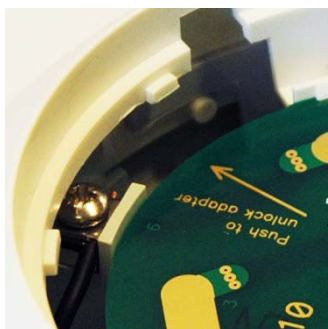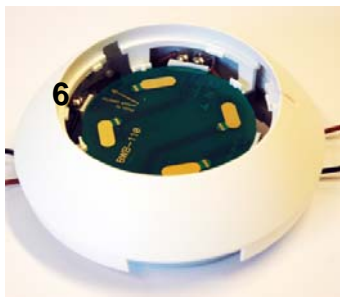
- Remove the detector head from the detector base (the illustration shows the detector base BWA-40A/1 after removal)
- Remove addressing board if fitted.

- Disconnect the wire from screw terminal 4, then connect it to screw terminal 6 (see "Connections to BWA-40A/1 on opposite page")
- To ensure proper contact, gently bend all 4 spring-loaded contacts in the appropriate direction (as shown on opposite page)
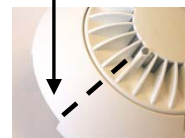- Tighten all screws

- With the arrow on the circuit board pointing in the direction towards screw terminal 6, insert and press the base adapter into the detector base and turn it clockwise until a click is heard.
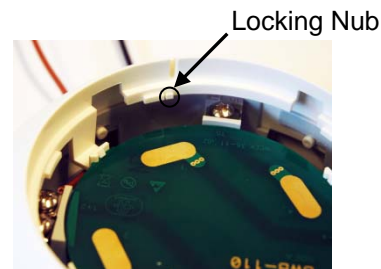
Edge near tag position

- Mount the new detector head; insert it firmly into the base adapter and turn clockwise until the LED indicator is aligned with the edge (near tag position, see dotted line), then press and turn the detector head clockwise until a click is heard. The detector head is now properly fastened, but not locked. To lock it, see the description below.

Locking the detector head (optional)

Locking Nub

In the Base Adapter BWB-110 a small nub will prevent the detector head from being locked. If the locking nub is removed before mounting (with a pair of cutting nippers or similar), the detector head will be locked.

Removing a locked detector head from the base adapter

To remove a locked detector head from the Base Adapter BWB-110, the locking mechanism has to be released. This is done as follows:

- Notice the small hole at the bottom of the slot.
- Insert a suitable tool (for example a paper clip or similar) and press it to release the locking mechanism while removing the detector head simply by turning it counter-clockwise

Slot

Removing the base adapter from the base

- Use a screwdriver to gently push the inside locking nub to unlock the base adapter (located where the arrow is pointing), while turning the adapter counter-clockwise