

INSTALLATION INSTRUCTIONS FOR INTEGRATED DETECTOR BASE LOOP POWERED ADDRESSABLE SOUNDER – SOUNDER STROBE & STROBE

MODELS

BSO-xx-N** = Sounder Non Isolation
 BSO-xx-I** = Sounder Isolation

BSS-xx-N** = Sounder Strobe Non Isolation
 BSS-xx-I** = Sounder Strobe Isolation

BST-xx-N** = Strobe Non Isolation
 BST-xx-I** = Strobe Isolation

xx Denotes Colour
 ** = Denotes Customer ID Code



GENERAL

The range of intelligent devices are designed to be connected to analogue addressable fire alarm systems.

These devices must only be connected to control panels that use a compatible proprietary analogue addressable communication protocol.

These devices receive their power from the loop, and can be controlled via the communication protocol(s).

The Integrated Detector Base Sounder is designed to accept a Series 200 Advanced detector. The sounders have three volume levels and 32 tone sets. Models (BSO-xx-I**, BSS-xx-I**, BST-xx-I**) containing the character 'I' prior to the Customer ID code include in built isolation providing short circuit protection of the loop.

Up to 159 addresses are available. (Consult the panel instructions to confirm compatibility) These are selected via the two rotary selector switches. The 'tens' digits go from 0 to 15 and the 'units' from 0 to 9.

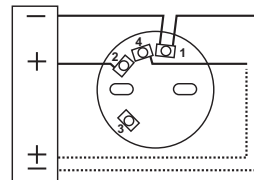
Note: if the control equipment is not capable of taking over 99 module addresses, a fault condition will be generated for every address over 99.

THIS PRODUCT IS NOT APPROVED TO EN54-23 (VISUAL ALARM DEVICES) AND MUST NOT BE USED AS A VISUAL ALARM DEVICE OR TO PROVIDE A PRIMARY WARNING NOTIFICATION OF FIRE.

SPECIFICATIONS	BSO-xx-*** Sounder	BSS-xx-*** Sounder Strobe	BST-xx-*** Strobe
Signaling Line Supply Voltage (non isolation)	15 to 29VDC (24VDC typical)		
Signaling Line Supply Voltage (isolation)	15 to 29VDC (24VDC typical)		
Max current consumption (non isolation) (High Volume Tone 13 @24V)	4.46mA	8.40mA	N/A
Max current consumption (isolation) (High Volume Tone 13 @24V)	4.65mA	8.59mA	N/A
Max peak power	148.8mW	243.4mW	99.12mW
Sound Output to EN54-3 (High Volume Tone 13 @24V)	96dB(A) ± 3dB		
Beacon flash rate	N/A	1Hz	1Hz
Max current consumption @ 24V (non isolation) BST-xx-***	N/A	N/A	3.94mA
Max current consumption @ 24V (isolation) BST-xx-***	N/A	N/A	4.13mA
Quiescent Current	450uA		
Operating temperature range	-25 to +70°C		
Relative humidity	up to 93% (± 3%) - non condensing		
Terminal Size	2.5mm ² - maximum		

For isolator specification refer to document SP11-2848 available on request
 These model types must not be used as visual alarm devices to provide a primary warning notification of fire.

TERMINAL CONNECTIONS



VOLUME SETTINGS

Volume setting is selected by SW6 and SW7 of the 8 way DIP switch. The appropriate tone set is selected by SW1 to SW5 of the 8 way DIP switch (see table 1) The 2nd stage tone (related to the 1st stage tone) is controlled by the fire panel via the protocol.

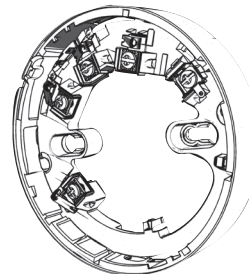
SW6	SW7	Volume Setting
OFF	OFF	HIGH
OFF	ON	MEDIUM
ON	OFF	LOW
ON	ON	LOW



BASES/IP RATING

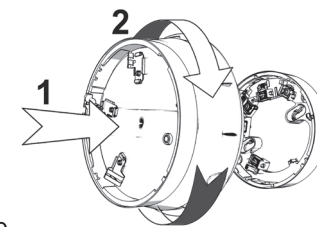


B501AP (IP 21C)



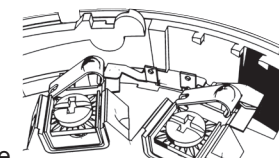
INSTALLATION

Affix B501AP to a suitably flat ceiling. Terminate the cable to the appropriate terminals. For surface mount wiring the cable can enter the B501AP via the break outs provided. Select the appropriate Tone and Volume settings via the DIP switch. Locate the main assembly on to the base by rotating until it locks into place.



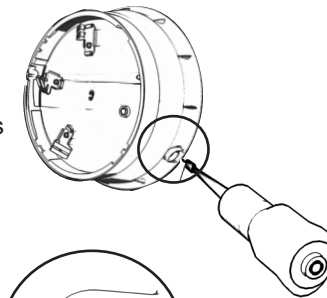
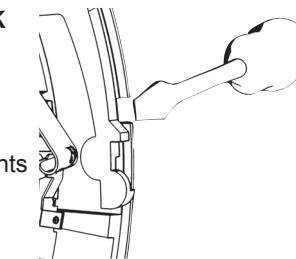
CONTINUITY SPRING

The B501AP incorporates a continuity spring between terminals 2 and 4. This allows the continuity of the field wiring to be checked without the need for the device to be present. Inserting the device will disengage the spring. Removing the device will close the loop.



ANTI TAMPER LOCK

The B501AP also includes a tamper resistant feature that when activated prevents removal of the unit without the use of a special tool. This method is consistent with the anti tamper feature across all devices using this base. This prevents the device being turned to enable its release.



Breakout

