

BT9

Single zone store & forward PA interface

Operating Instructions

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BALDWIN BOXALL
COMMUNICATIONS

BT9 – SINGLE ZONE STORE & FORWARD PA INTERFACE

The BT9 interface enables public address announcements to be made from an existing telephone or intercom system using the 'store and forward' technique. By recording the announcement and immediately playing it back, removes the possibility of acoustic feedback. The maximum recording time is 60 seconds which is more than adequate for normal paging needs.

The BT9 may be accessed by either using a contact which closes when the caller calls the designated extension or VOX (voice operated switching) when the audio port is made live from the telephone or intercom system.

Once the announcement is recorded, when the caller terminates the call, the BT9 will play back the announcement once or twice, depending on internal switch selection.

The BT9 is housed in a steel enclosure and is powered from 20-35V dc from the public address amplifier (if available). The output level is suitable for feeding into a balanced microphone input, and is compatible with our M2000 or Maxim range of amplifiers, using a six-pin DIN plug. The busy input – when active – will allow a message to be recorded but only play it back once the 'busy' condition has been removed. This busy signal from the amplifier indicates that the amplifier is in use – possibly from another microphone.

Note : The BT9 is not approved for direct connection to the British Telecom network. However under general approval NS/G/23/J/100003, it may be indirectly connected via a telephone switch (PABX) port.

Referring to Figure 1, there are four dual-in-line switches to select operation modes:

<u>Playback</u>	Switch 1	Off – Plays the message once On – Plays the message twice
<u>Access</u>	Switch 2	Off – Allows a remote contact to access the system On – Enables VOX detection for systems without the above contact
<u>Chime</u>	Switch 3	Off – No playback delay On – Provides 2.5 second delay for a chime
<u>VOX release</u>	Switch 4	Only used when the VOX mode is selected Off – Provides a 1 second VOX release time On – Provides a 3 second VOX release time

Figure 1 also shows the terminations for the remote contact and the audio speech line.

Technical Specification

		<i>6-pin DIN plug connections</i>
Power requirements:	22-40V dc @ 30 mA maximum.	+Ve = 6 0V =2
Overall frequency response:	-3dB @ 200Hz - 3.4kHz	N/A
Maximum recording time:	60 seconds	N/A
Access input:	Opto coupled 20-50 V @ 7mA maximum ac/dc	N/A
Audio line input:	0dBm transformer isolated	N/A
Amplifier input access, open NPN collector output:	40V @ 100mA maximum	5
Amplifier busy input:	Opto-coupled, 12-30V @ 7mA maximum ac/dc	4
Microphone audio output:	2.5mV, transformer isolated @ 22 Ohms	1 & 3

Other applications

It is possible to use the BT9 to provide a 'store and forward' using our standard BDM201, selected to line level out, using the press to talk switch to energise the access input. This could be another application for BT9, but is only suitable for a single zone system.

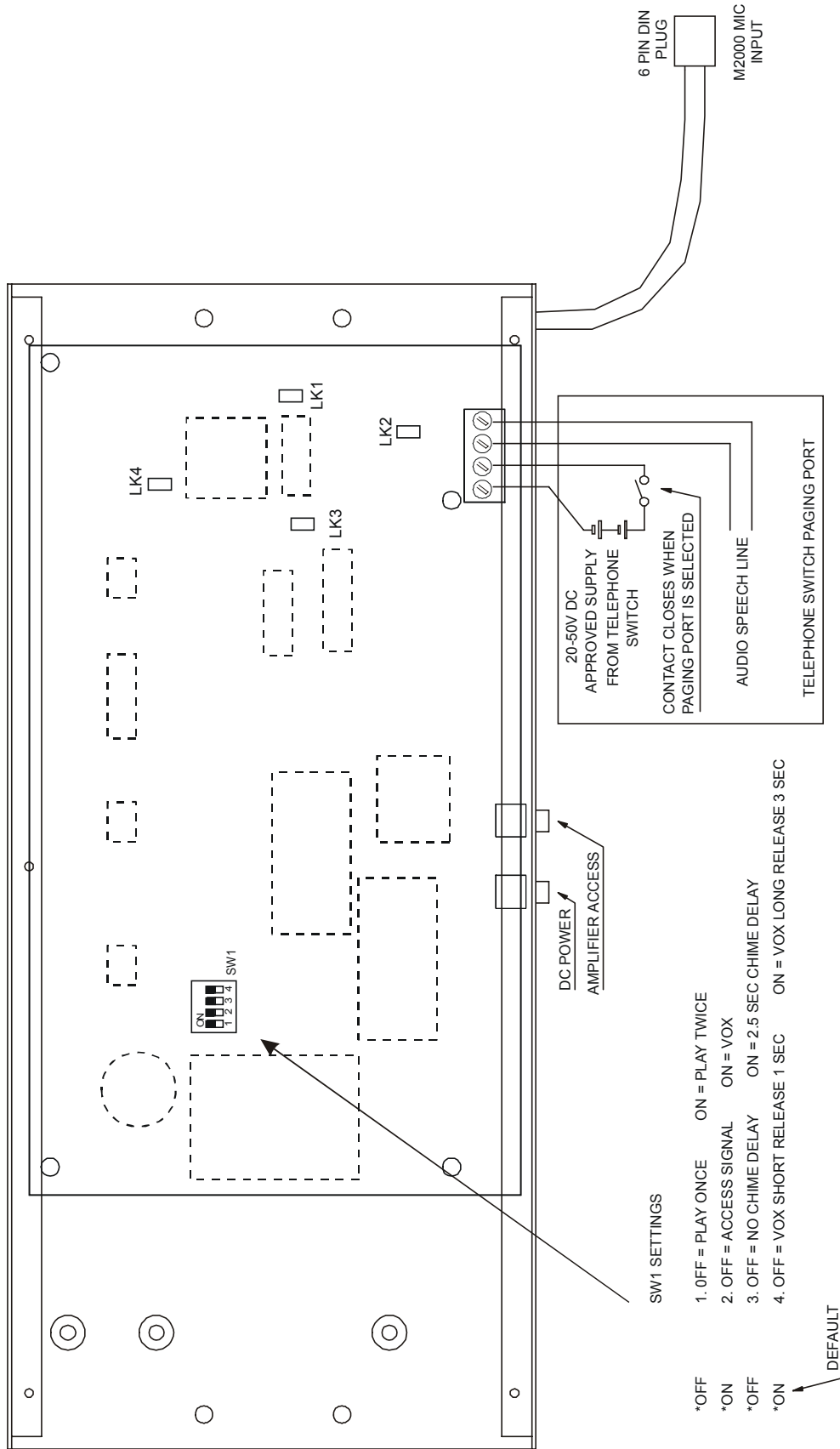


FIG 1