

Monitoring Options

Certified to BSEN54



VIGIL 2

BEL1 - END OF LINE:

- Two versions are available:
 - BEL1 - standard.
 - BELIIP - IP65 rated.
- An active unit which is installed on each loudspeaker circuit.
- Up to four BEL1 units can be placed on one speaker run (see diagram over page). All internal DIL switches must be set correctly.
- Monitors the critical signal path of speaker lines for open, short circuit and earth faults.
- Fault warnings are displayed on the voice alarm rack.
- Each BEL1 unit uses approximately three Watts of power. This needs to be noted when designing a system.

BVRDADC - DC LINE MONITOR:

- DIN rail mounted CANBUS module with screw terminals for connections to amplifiers and loudspeaker lines.
- 11 x amplifier surveillance (10 with automatic amplifier changeover).
- Monitors the integrity of loudspeaker lines by measuring a small DC current. (Each end of line loudspeaker requires a 10K 2W (at 1% tolerance) resistor. Each loudspeaker requires a capacitor - refer to *BVRDADIM/S DC Line Monitor sales leaflet* for details.)
- Monitors for earth faults.
- Fault warnings are displayed on the voice alarm rack.

BELIO - END OF LINE:

- DIN rail mounted, the BELIO is the equivalent of ten BEL1 units.
- Loudspeaker lines terminate at the BELIO.
- Monitors the critical signal path of speaker lines for open, short circuit and earth faults.
- Fault warnings are displayed on the voice alarm rack.
- Typically, the BELIO is used to ease the upgrading of an existing voice alarm system, where loudspeaker lines are wired in a loop back to the rack.
- Each BEL1 unit uses approximately three Watts of power. This needs to be noted when designing a system.

BVRDACO & BVRDNCO - AMPLIFIER/LINE MONITOR:

- DIN rail mounted CANBUS module.
- 10 x BEL1 line surveillance with earth leakage fault detection.
- 11 x amplifier surveillance (10 with automatic amplifier changeover - BVRDACO only).
- Fault warnings are displayed on the voice alarm rack.

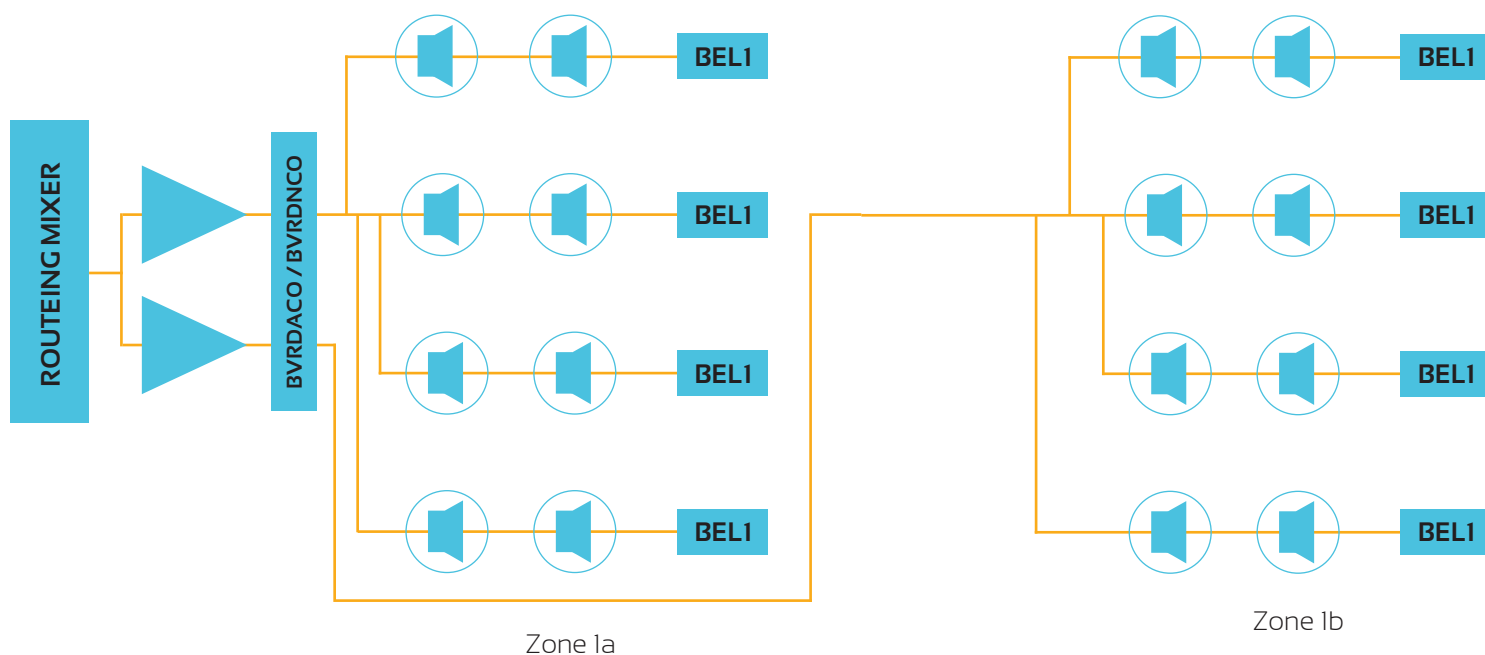
BVRDADIM & BVRDADIS:

- Enables dual loudspeaker circuits to be connected to a single amplifier. (Refer to *separate leaflet* for full details.)

BVLAM - IMPEDANCE MONITOR:

- Rack-mountable unit (1U high). Two units can be mounted across one rack 'shelf'.
- Provides eight loudspeaker zone selection from one amplifier.
- On receipt of a signal from an input (ie zone selecting microphone) the BVLAM triggers the amplifier to output to the selected zone.
- An internal relay enables zone switching.
- The BVLAM provides constant impedance monitoring on each of the eight loudspeaker circuits when not selected.
- LEDs are used to indicate a drop (or increase) in impedance - set at either 20% or 40% by DIL switches.
- Note: due to detection accuracy, BVLAM is only suitable for BS5839-8 voice alarm systems with less than five speakers per circuit.
- Access faults on any of the zones from the microphone are indicated by LEDs on the BVLAM.
- Additional LED indicators are provided to show 'system healthy' and 'supply healthy'.

TYPICAL BEL1 CIRCUIT COMPRISING OF FOUR SPURS:



BALDWIN BOXALL
LEADING THE WAY TO SAFETY

Baldwin Boxall Communications Ltd
Wealden Industrial Estate, Farningham Road,
Crowborough, East Sussex, TN6 2JR, United Kingdom

T: +44 (0) 1892 664422 F: +44 (0) 1892 663146
E: mail@baldwinboxall.co.uk
W: www.baldwinboxall.co.uk