Pro Intercom LLC ©

Intercom for Sound, Lighting and Production Professionals

BP1SL

Switchable (Ch.A or Ch.B) Portable Headset Station (Beltpack)

Operating Instructions & Connections

The BP1SL is a single-circuit beltpack which can monitor either of two circuits, but not simultaneously. A front panel slide switch permits you to choose. It has a unique feature which provides a signal light for each channel and both lights are operational no matter which circuit you are currently monitoring. For simultaneous 2-circuit communications see the BP2

1. Plug a headset into the XLR type 4-pin socket on the back of the unit. The rear panel connections are detailed on the next page. In **Pro Intercom** systems, the phase of the earphone is the reverse of that sometimes used. This was done to reduce the effect that the headset connector and wiring has on the headset station bridging impedance and 'Sidetone' (See #8) adjustment stability. Either standard of headset wiring will work with **Pro Intercom** headset stations.

2. Plug the standard microphone cable from your power supply or master station into each of the XLR 3-pin type sockets on the back of the unit.

3. Press the mic. button and partly turn up the 'Listen level' control on your unit and others on the same circuits as yourself.

4. You should now be able to communicate with any of these other outstations.

5. The thumb operated 'Listen-level' control regulates the loudness of your headset earphone(s). It has **NO** effect on the microphone level, or the volume that others hear.

6. The microphone amplifier gain is factory adjusted to suit most types of headset microphones. It contains a limiter/compressor which compensates for differences in microphone output and voice levels.

7. The flash (signal) push button flashes a light in all outstations connected to your circuit. It is used to attract attention in the event that a user has removed his/her headset.

8. The screwdriver preset controls the level of your own voice in your headset. This adjustment is called 'Sidetone'. This is set at the factory at a level suitable to the majority of the users. This can be altered for personal preference or adjusted for deep cancellation allowing the headset to be removed and used to monitor.

9. The BP1SL is compatible with Clear-Com® and other, lesser-known 200 unbalanced party-line headset intercom systems.

Specifications:

Headset Microphone Impedance: 200 dynamic, 30 to 1 K acceptable, or 1.2~1.8k electret..
Headset Earphone Impedance: 150-600 preferred, 8W - 4 K acceptable.
Voltage: 24V DC nominal, 18-30V DC acceptable.
Current consumption: 10 mA with speech, 30 mA with signal lamp activated.
Lamp type: 4-segment 20mA LED)
Line bridging impedance: 200 unbalanced
Sidetone cancellation: 0dB to 55dB

Controls:

Channel selector: Slide switch
Talk: Push on/push off, self indicating switch
Listen level: Thumbwheel operated potentiometer
Signal: Non-latching push button switch.
Sidetone: Screwdriver adjust, recessed potentiometer.

(Continued on next page)

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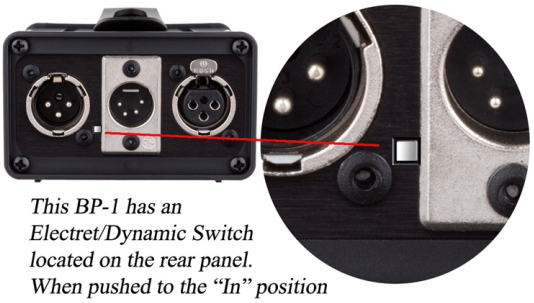
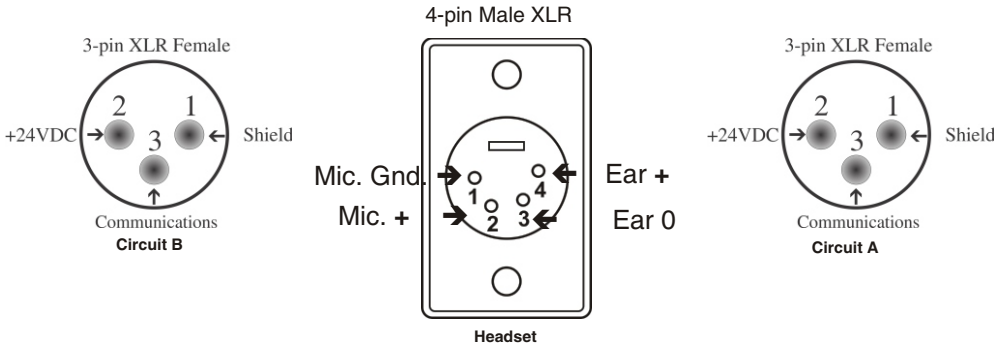
Now you can use headsets with electret microphones!

New Feature



This BP-1 has an Electret/Dynamic Switch located on the rear panel. When pushed to the "In" position the unit will operate with an Electret Mic. When in the "Out" position the unit will operate with a standard dynamic Mic.

Rear (Back) Panel Connections



If you don't read anything else, please read this!!!

By convention, in order to avoid any confusion with low impedance microphone jacks, the female jack on intercom equipment is considered the input, while the male jack is intended to be used to loop onwards to other stations in the system. Reversing this order will not effect performance, *but does make it more probable that a reversal of pins 2 and 3 will occur*. This is the single most common cause of failure in both beltpacks and in complete intercom systems. The reversal will apply 24VDC to the communications conductor which will, at a minimum, cause the signal light system to become erratic and eventually fail, causing internal damage to the beltpack(s).