

BASIC SERIES INTRODUCTION

The BASIC series of ASL Intercom Products offers a cost effective solution for the smaller network where a full duplex, one or two-channel party-line communication system is required, based on a standard balanced mic cable interconnect system. The installation requires no expert knowledge and a fool-proof wiring concept with superior control layout allows easy installation and comfortable operation.

A current driven interconnect loop ensures operator listening levels do not change as stations are added or removed from the network.

High quality push-pull headphone amplifiers are employed and the complete system offers a frequency response of 200Hz to 13kHz with a dynamic range of 80dB. Special proprietary frequency contouring circuitry ensures high intelligibility for voice communications.

HEADSETS

Headsets with dynamic or electret microphones can be connected as standard. The mic gain can be adjusted internally to suit all possible input levels and a headset detection circuitry ensures the mic pre-amp is active only when a headset is connected. Headset volume controls enable the user to listen to the communication signal at any required level and, at dual channel stations, to the signals of both channels in any required balance.

POWER SUPPLIES

All the power supplies are of the switchmode type. They are fully protected such that if there is a short circuit, faulty wiring, or a dangerous thermal condition, power will be reduced and eventually shut down. Once the faulty condition has been removed, the power supply will auto-

matically reset and full power will be restored.

CALL

The combined visual and audio call system covers light and/or sound sensitive environments. CALL buttons enable the user to generate a call signal to each channel separately. An incoming or outgoing call signal is indicated by a large red LED. If a CALL button is held for more than 2 seconds, the internal audio buzzer is activated. The volume of the buzzer sound can be trimmed or muted.

TALK

TALK buttons with green LED indicator enable the user to talk to one channel only or to two channels simultaneously.

SIDETONE

For each channel at an intercom station, a sidetone trimmer is provided to adjust the level of the users voice as heard over his own headset.

AUX PROGRAM INPUT

An auxiliary program input on the master station and the dual channel power supply, with selectable line or phantom powered mic settings, feeds auditorium program onto the intercom line. The input is electronically balanced and switchable between line or 30 V phantom powered mic level inputs.

BASIC SERIES FEATURES

- Strong ABS backpacks for light weight and durability
- Unique visual and audible call system with volume trimmers
- Powering for dynamic or electret headset mics as standard
- Separate TALK- and CALL functions with large LED indicators
- Auto resetting switch mode power supplies for 110/240 V mains
- Proprietary frequency correction for high intelligibility
- Automatic headset detection
- Auxiliary program input

BASIC SERIES TECHNICAL SPECIFICATIONS

General

Dynamic range	80 dB (1kHz, THD<1%)
CALL signal (send)	+2,4 mA
CALL signal threshold (receive)	+2,5 VDC

Power Supply

Mains voltage range	100 - 240 V AC 50/440Hz autoselect
DC output voltage	+30 V +/-5% DC
Max output current	1,5 A continuous, 2 A peak

Intercom Line

Impedance	350 Ω at 1 kHz
Audio level	nom. -18 dBu; max. +4 dBu

Mic Pre-amp

Mic impedance (headset mic)	200 Ω
Gain	40 - 70 dB adjustable internally
Frequency response	200 Hz - 13 kHz (-3dB)

Output Amp

Max output level	9 V rms
Max output power (headset)	400 mW rms into 200 Ω
Headphone impedances	50 Ω - 2 K Ω

Sidetone Rejection

Adjustable 0 - 30 dB

Note: 0 dBu defined as 775 mV rms into open circuit.

In keeping with our policy of continued improvement, ASL reserve the right to alter specifications without further notice. This range of products was designed, developed and produced by ASL Intercom BV, Utrecht, Holland.

ARCHITECTS AND ENGINEERS SPECIFICATIONS

The intercom system shall be of the full duplex type and consist of one or two party lines (so-called 'channels'), to which all intercom stations are connected, enabling the users to 'talk' and 'listen' simultaneously.

The user stations shall be powered by an intercom power supply with built-in line impedance via the interconnecting cables. All interconnecting cables shall be of the balanced microphone cable type, with connectors of the XLR-3 type.

All user stations shall have heavy gauge steel or strong ABS housing and high quality controls and connectors. All rack mount housings shall be of the 19" format.

All intercom audio circuitry shall provide a dynamic range of 80dB and a frequency range of 200 Hz to 13 kHz (-3dB), power amplification for headsets of 400 mW into 200 Ohm and a 'high intelligibility' frequency correction system.

All user stations shall have a CALL system, offering both flashing visual and audible signalling. Every channel shall have its own CALL button and CALL indicator on each station.

All user stations shall have a volume control of the audible CALL signal

and, for each channel, trimmers for sidetone adjustment.

It shall be possible to connect any headset, with a headphone impedance 50 ohms - 2K ohms and with a dynamic or electret microphone.

All power supplies shall be of the switch mode type and may be connected to mains voltages from 100 - 240V AC (50/440 Hz). Power supplies shall be fully protected and shall have LED status indication for 'power on'.

The intercom system shall provide a volume controlled input for balanced auxiliary program audio signals.

The intercom product range shall at least embody: a two channel master station with built-in power supply, a single channel backpack, a single channel separate power supply, a dual channel power supply and accessories such as line sockets, line split boxes, a CALL beacon, headsets and handsets.

The intercom system shall be the ASL BASIC series.

BS 216 DUAL CHANNEL MASTER STATION



The BS 216 is a dual channel intercom station with a built-in power supply and AUX input for program signals. It is housed in a 19" steel case and provides all the features necessary for a two channel communication system, in conjunction with the BS 15 beltpacks.

Power Supply Section

The power supply is designed to be able to safely drive 15 beltpacks BS 15, when each is driven to full volume. The BS 216 may be connected to mains power 100V - 240V AC (auto select) 50/440Hz

TALK and CALL functions

For each channel a TALK and a CALL button is provided, both with a large LED indicator.

Volume Controls

For each channel a headset volume control is provided.



Aux Program Input

A XLR-3 connector on the rear panel allows access to the intercom lines for external audio signals.

A volume control per channel is provided at the front panel.

(Rear panel)

BS 181 SINGLE CHANNEL POWER SUPPLY

The BS 181 is a 1-channel power supply of the switch mode type, in a steel case. It is capable of safely driving 15 beltpacks BS 15, when each is driven to full volume. It provides all the features necessary for a simple communication system based on BS 15 beltpacks.



BS 15

SINGLE CHANNEL
BELTPACK

The BS 15 is a portable 1-channel intercom station, housed in a strong ABS case and provided with a belt clip. The unit is powered via the intercom line by a BS 216 master station or a BS 181 / BS 286 power supply.

TALK and CALL function

At the front panel, a TALK and a CALL push button are provided.

Volume Control

A headset volume control enables the user to adjust the listen level of the communication signals.

BS 286 DUAL CHANNEL SEPARATE POWER SUPPLY



The BS 286 is a 2-channel switch mode power supply with AUX input for program signals. It is housed in a 19"/1U steel case and is designed to be able to safely drive 15 beltpacks BS 15, when each is driven to full volume.

Aux Program Input

A XLR-3 connector on the rear panel allows access to the intercom lines for external audio signals.

On the front panel AUX signal volume controls are provided, one for each channel.

TALKPACKS

The BASIC series products are also available as pre-packed intercom systems:

TALKPACK 1

contains: one BS 181 power supply and two BS 15 beltpacks

TALKPACK 2

contains: one BS 181 power supply, two BS 15 beltpacks and two HS2/D headsets



TALKPACK 3

contains: one BS 216 master station and two BS 15 beltpacks