

Logic
4004s

User Guide

CONNECTIONS.

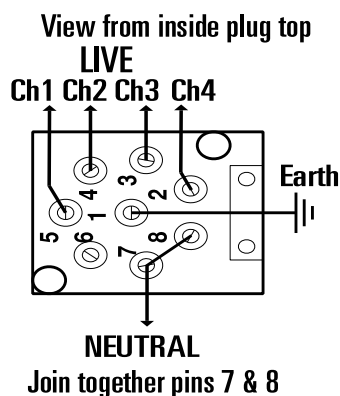
Mains input

Connect the 3-core lead to the mains supply of the appropriate voltage. (If connecting by a 13 Amp plug and socket to BS1363 then the maximum load must be reduced, see Technical Specifications.)

- | Brown = live
- | Blue = neutral
- | Green/Yellow = earth.
- | **The Logic 4004s must be earthed.**

Output

Mains output is via two 8-pin sockets type P552. One socket is connected to the chaser section, the other to the effects section. Connections are shown below. The same connections are used on each socket.



Sound input

Connect an audio signal from the speaker output of any amplifier up to 450W rms to the ¼" jack on the rear panel labelled 'sound'. This does not affect the loudspeaker/amplifier loading.

3/4 CHANNEL SELECTION.

Your Logic 4004s is supplied operating as a four-channel controller; if you require it to operate in the three-channel mode, proceed as follows:

DISCONNECT from the mains, remove the handles, remove the five

User Guide

lid-fixing screws located at the sides and top of the case, remove the upper two fascia screws, and remove the lid. The 3/4 channel switch is located on the front printed circuit board between the program switch and the channel 4 latch switch. Move to the left for 3-channel operation. Replace the handles, the lid, and the lid- and fascia-fixing screws.

OPERATION.

The Logic 4004s has two independent sections, chaser and effects. Each section has four channels.

Effects Section

Each channel of the effects sections may be switched on momentarily by pressing the flash button, or switch on, or off using the latch button. An LED indicator shows the status of each channel.

Chaser section.

The Chaser section has the same latch and flash facilities as the effects section in addition to the four-channel sound chaser.

Chaser operation.

Light chase

With sound chase switched off (Sound chase LED not lit), turning the speed control clockwise will cause the display to progress faster.

Sound chase

With the sound chase switched on (sound chase LED lit) the Logic 4004s will chase to the bass beat of the music. A connection is required to the sound source (see part 3) but no adjustment is necessary as the Logic 4004s has an automatic level circuit.

Program selection

The sixteen position program switch selects either:

- | Manual control (no chase pattern) (position 0),
- | one of the twelve programs (positions 1-12),
- | Full Auto-Run (runs through all 12 programs)(position A),
- | Short Auto-Run (singles, pairs, triples) (position B) or
- | Random (position C).

User Guide

To disable the Logic 4004s move the program switch to zero. Do not enable and disable by repeatedly switching the mains power to the unit.

Each program consists of a forward and a reverse pattern; pressing the hold rev. switch inhibits the reverse pattern, forcing the unit to run forwards all the time. The LED lights green for normal operation, and red for single direction operation.

Beat

With the program switch set to 0, pressing the beat switch will flash any channel selected on the latch switches in time to the bass beat of the music. With the program switch in any other position, the Logic 4004s will flash any channel selected on the latch switches over the selected pattern.

Floodlight

With beat switched off (beat LED not lit) the switches can be used to latch the outputs at any time. Move the program switch to 0 and the latch switches give full manual control over the lighting.

In the 3-channel mode the fourth output can be for static switching using either the latch switch as in the effects section. This produces a 3-channel chaser section and 5-channel effects section.

Random pattern

Selecting 'C' on the program switch will produce a random pattern.

Mimic

The four red LEDs allow the user an instant visual indication of the unit's performing mode.

User Guide

	Technical	Specification
Size:		483x88x127mm 19"x3½" (2U)x5"
Minimum mounting depth:		90mm (3.5")
Weight:		1.7kg
Audio impedance:		680 ohms
Audio input range:		2V rms - 60V rms
Maximum load:		5 Amps per channel: 1.15kVA @ 230V AC

(1.15kVA corresponds to 1150 Watts resistive load, approximately 800 Watts inductive load)

Maximum total load:	12 Amps
(Chaser section)	2.75kVA @ 230V AC
Maximum total load:	12 Amps
(Effects section)	2.75kVA @ 230V AC
Maximum overall load:	20 Amps 4.6kVA @ 230V AC

Reduce to 13 Amps (2.99kVA @ 230V AC) if connecting via a British Standard 13 Amp (BS1363A) mains plug/socket.

Fuses: 5x20mm F5A HBC (to IEC127)

HBC means "high breaking capacity" - a HBC fuse has a ceramic case.

Connections:

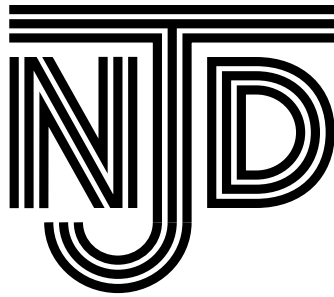
Audio:	¼" jack.
Mains in:	2.5mm ² Arctic Grade cable (to BS6500)
Output:	2 x Bulgin P552 sockets.
Triacs:	12 Amp 600V isolated tab
Type:	BTA12-600S

The Logic 4004s Complies with the following European Standards:

EN55014 - Electromagnetic Compatibility

EN60065 - Electrical Safety

IEC197 - Panel Fixing and Dimensions



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