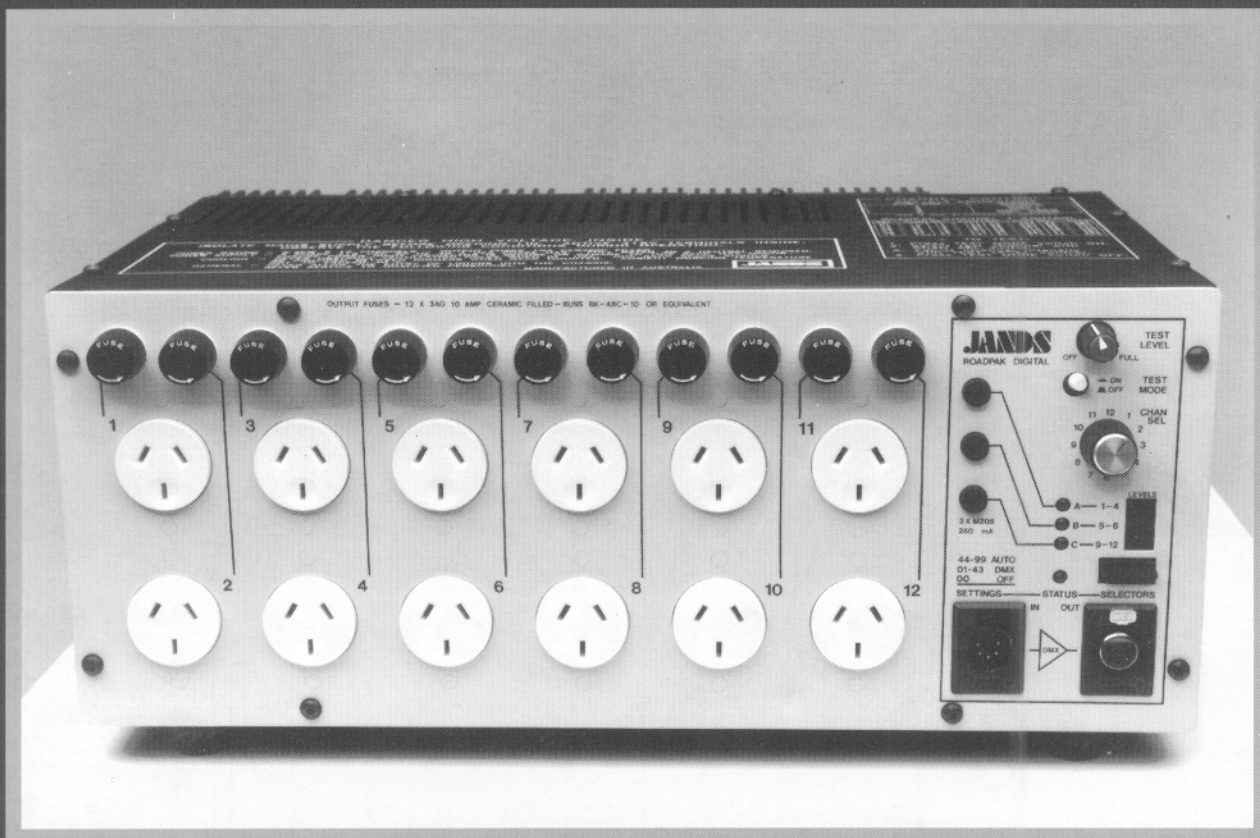


# ROADPAK<sup>Digital</sup>

## DMX-512 CONTROLLED DIMMER RACK



- 2.4 kW x 12 DIMMING CHANNELS
- DMX-512 CONTROL PROTOCOL
- CHANNEL TEST FACILITY WITH LEVEL CONTROL
- LOOP-THROUGH BUFFERED DMX OUTPUT
- PHASE ACTIVE DISPLAY LEDS
- SUITABLE FOR TOURING USE
- PRE-PROGRAMMED CHASE FUNCTIONS
- CHANNEL STATUS LEDS
- 2 YEAR WARRANTY

**JANDS**

### DESCRIPTION:-

Today's trend in professional lighting systems is towards the use of a digital control link between the lighting console and the dimmer racks, given that a digital format reduces the number of connectors and quantity of cabling required to interconnect a lighting control system.

The Jands Roadpak Digital dimmer rack was developed in response to this trend and is designed to complement lighting consoles providing a DMX-512 output - units such as the Jands Event, Event Plus and ESP II. The Roadpak Digital features twelve (12) output channels, each rated up to a maximum load of 2.4 kW, with the Triac/Ferrodip™ choke assemblies providing smooth fading outputs with low noise characteristics. The dimmer curves are set for a linear input/output voltage power relationship, a curve which is suitable for most lamps in common use. Output connections are made via standard 3 pin 10 amp outlets which are mounted on the front panel, together with quick change ceramic fuses.

Located on the front panel is a set of controls and displays which can be used to check the status of the dimmer racks, the control protocol and the connected load. Functions and displays include:-

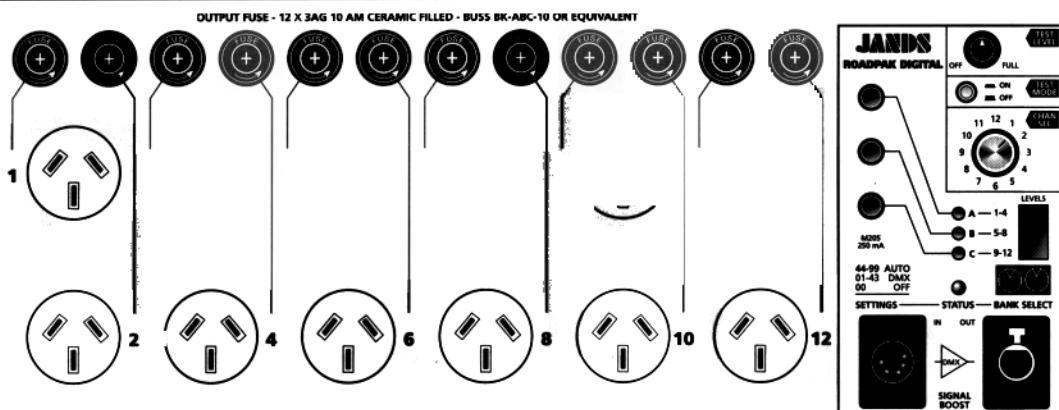
- Test on/off switch.
- Twelve (12) way rotary switch to select channel to be tested.
- Test level control.
- Three (3) LEDs to indicate that each of 3 phases of the mains supply are active.
- Twelve (12) LEDs each of which mimics the output of a particular dimmer channel.
- Status LED for control protocol.
- DMX assign switches.

The control circuit within the Roadpak Digital compensates for fluctuations in the mains supply and minimises the effect of spikes and superimposed control tones, ensuring a constant light output and increased lamp life.

The Roadpak chassis is a one piece case designed for maximum strength and durability. External aluminium heatsinks minimise the overall weight of the unit. Meshed ventilation areas located on the top and bottom faces of the Roadpak ensure liberal convection cooling of all critical components.

### OPTION:-

The unit may be rack mounted for touring use or attached directly to a wall in permanent installations by means of optional mounting flanges.



### TECHNICAL SPECIFICATIONS ROADPAK DIGITAL:-

<b>Channels</b>	: 12	<b>LED Indicators</b>	3 x Phase Power on, 1 x Status 12 x Channel mimic
<b>Power Rating</b>	: 2.4 kW per channel	<b>Output Fuses</b>	12 x 10 A 3AG Ceramic (Buss BK-ABC-10)
<b>Power Requirements</b>	: 3 phase 415 VAC 50 Hz, 40A/phase full size (40A) neutral and earth.	<b>Control Fuses</b>	4 x 250 mA 3AG (Australux 3AG)
<b>Output Risetime</b>	: > 100µs (10%-90%)	<b>Power Entry:</b>	Through side or rear panel
<b>Dissipation</b>	: < 1.5% of Output load	<b>Physical Size (mm)</b>	430 (W) x 172 (H) x 245 (D)
<b>Dimmer Curve</b>	: Linear Power	<b>Nett/Shipping Weight</b>	12.5 kg / 17.5 kg
<b>Max. Ambient Temperature</b>	: 40° C	<b>Optional Accessories</b>	Rack mouting ears (2 required)
<b>Control Input</b>	: DMX-512		
<b>Input Connector</b>	: 5 Pin AXR male connector		
<b>Test Facility</b>	: 12 way channel selector Level control 0-100% Detent = 50%		

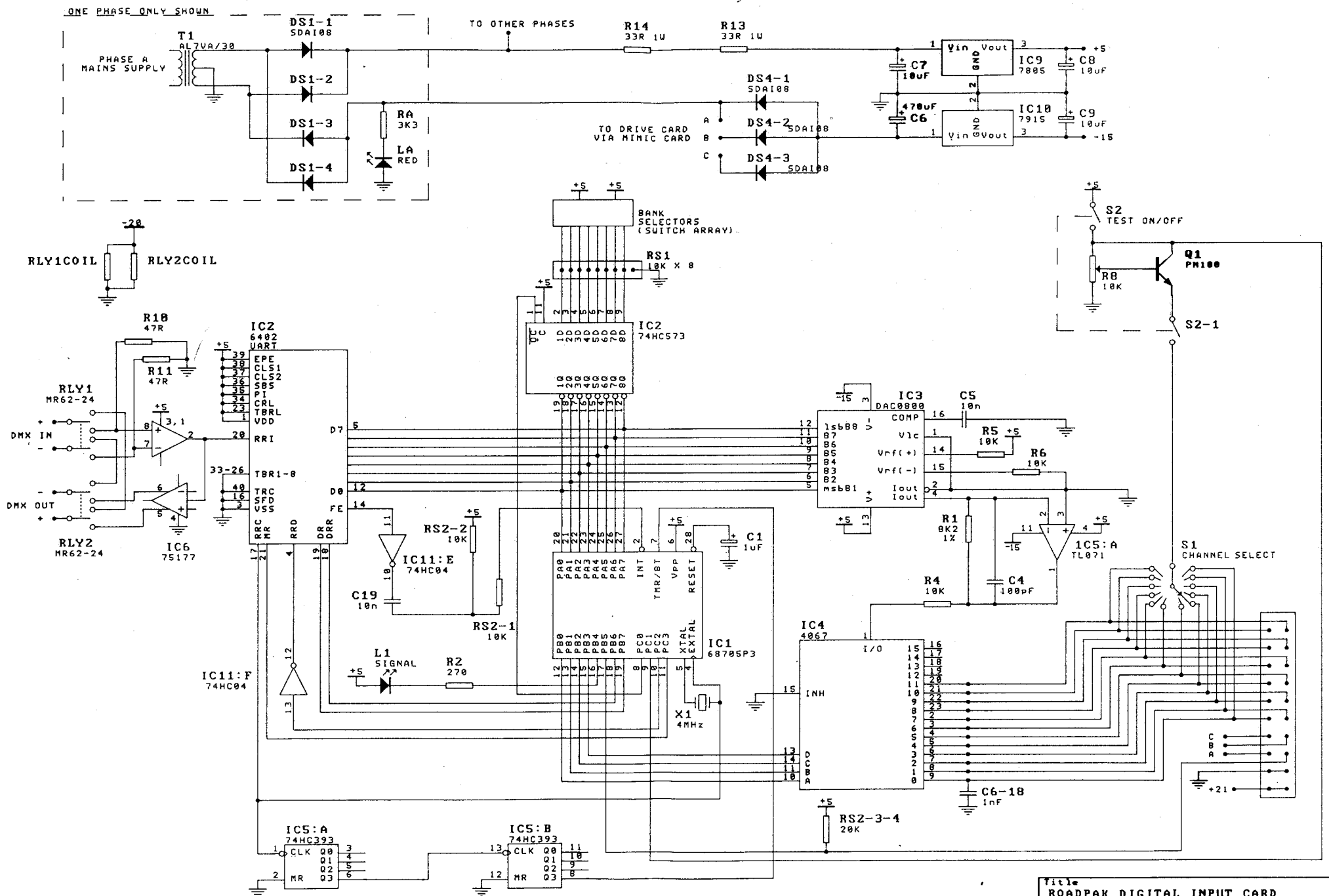
Distributor:



578 Princes Hwy, St. Peters, NSW 2044, Australia.  
Phone : (61) 2-516-3622  
Fax : (61) 2-517-1045

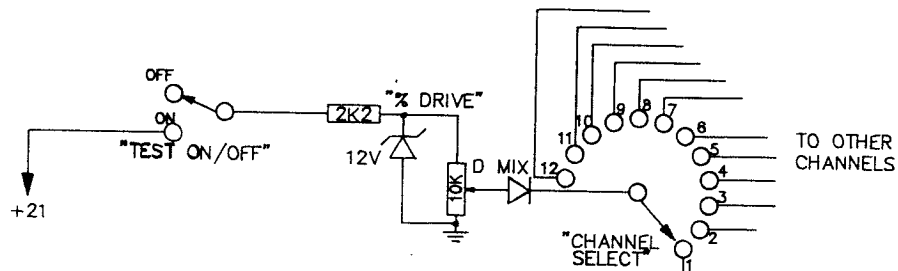
ACN 001187837

Specifications subject to change without notice. Manufactured by Jands Electronics Pty Ltd.



Title		
ROADPAK DIGITAL INPUT CARD		
Size	Number	Revision
A3	1265.48/B28	1
Date: 13-DEC 1989		Sheet 1 of 1
File: S:ROADPAK\DIGITAL\		Drawn By: D. TIMMINS

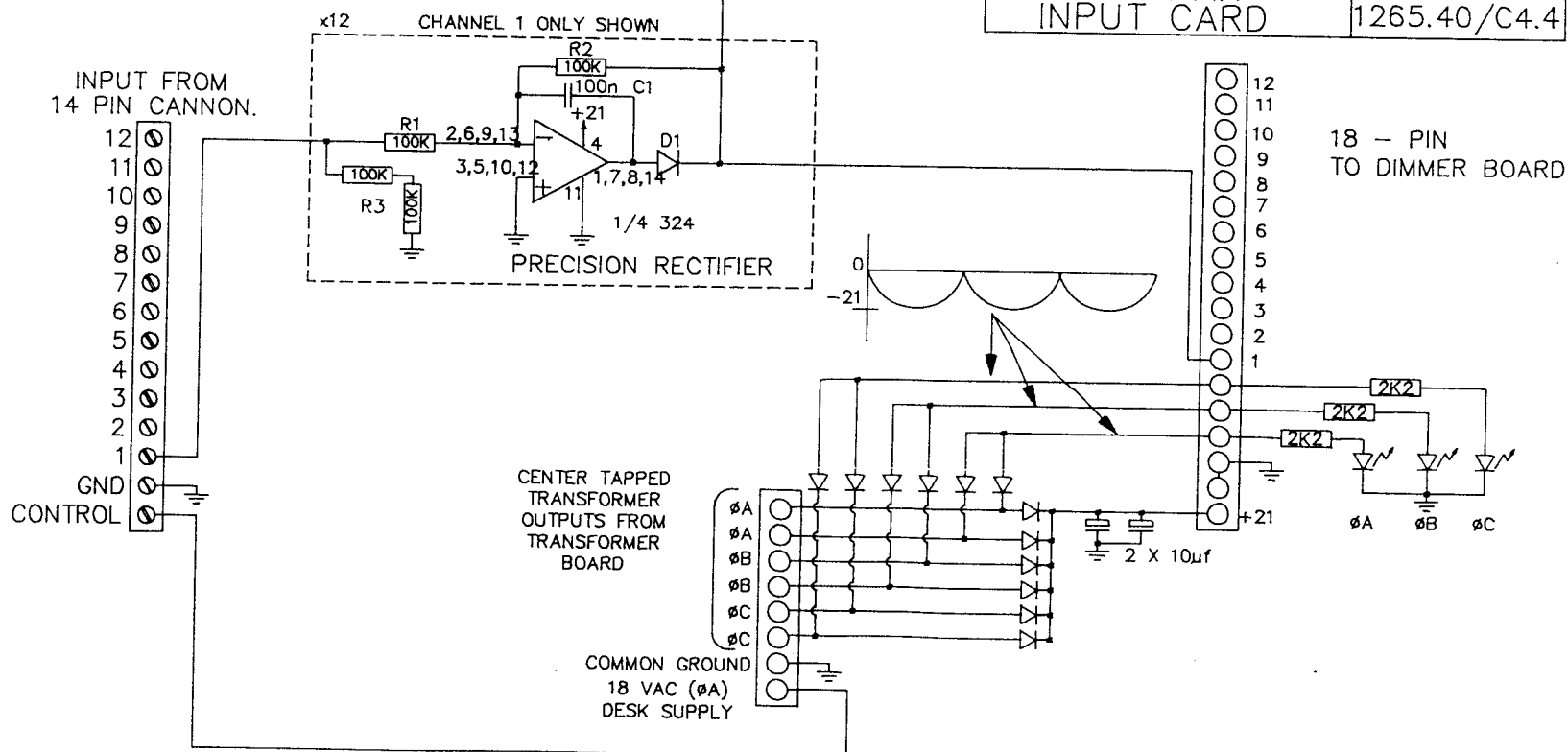




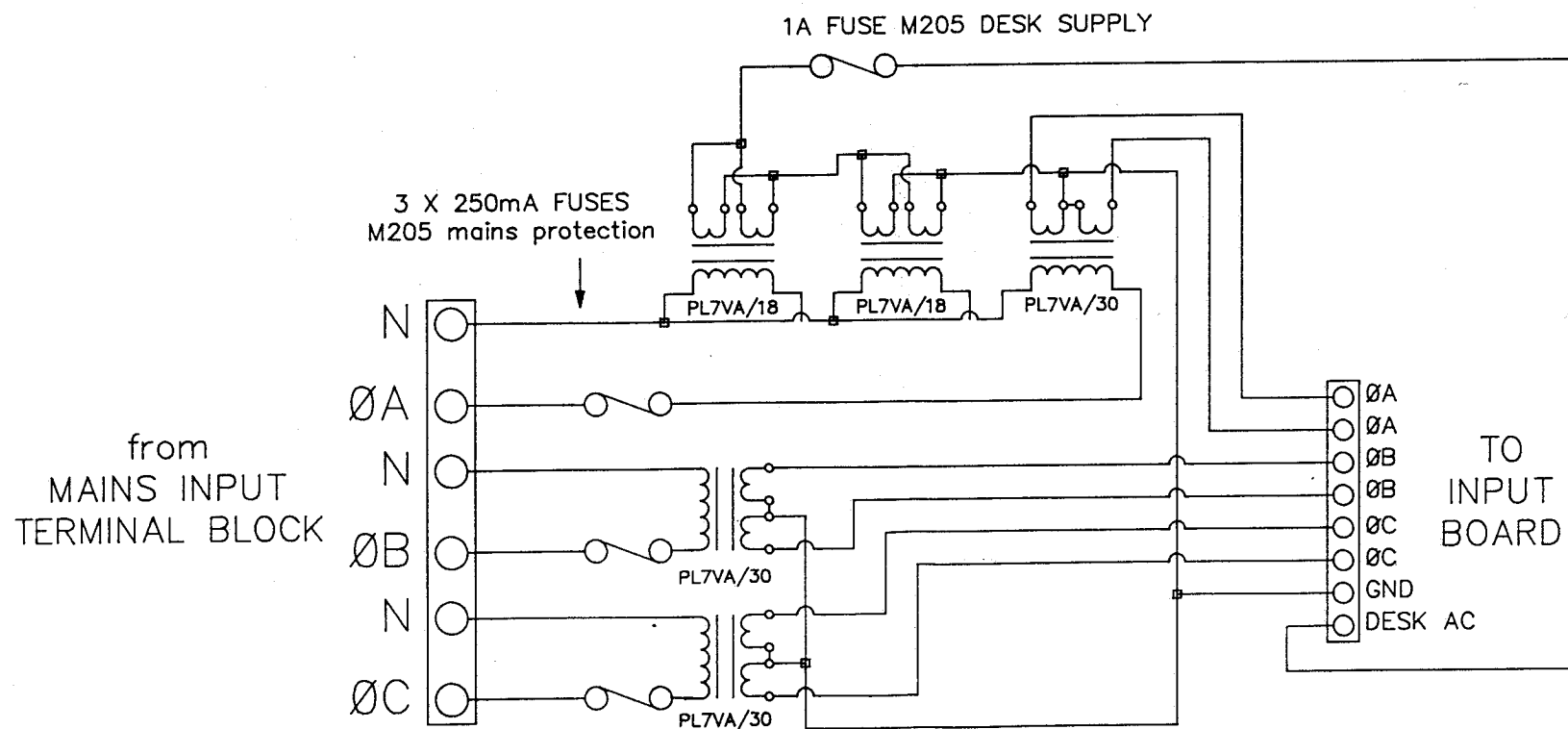
CHANNEL	φ
1-4	A
5-8	B
9-12	C

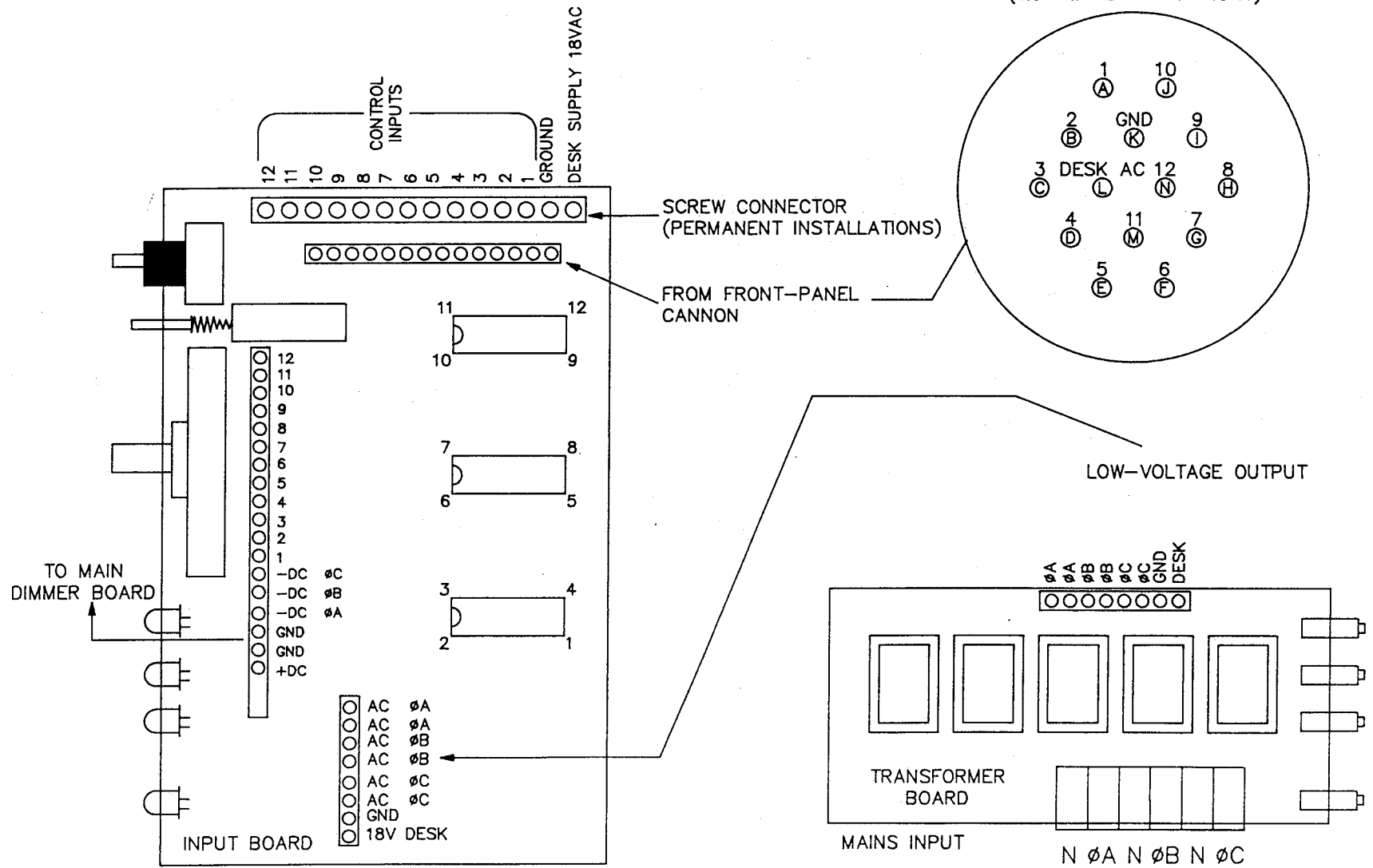
All diodes 1N914/1N4148 unless shown otherwise  
 All resistors 1/4 W unless shown otherwise  
 φ = PHASE  
 LABELS IN INVERTED COMMAS ARE THE  
 CORRESPONDING FRONT PANEL LABELS.

DRAWN BY: L. NATHAN	N/U: 1	SCALE	DATE
(C) JANDS ELECTRONICS P/L			5/4/88
DWG NAME: INPUTCRD		DRAWING NO.	
ROADPAK INPUT CARD		1265.40/C4.4	



DRAWN BY: SPEEDIE	N/U:	SCALE	DATE
(C) JANDS ELECTRONICS P/L			5/9/88
DWG NAME: C005_00		DRAWING NO.	
ROADPACK TRANSFORMER BOARD		1265.40/C5.0	



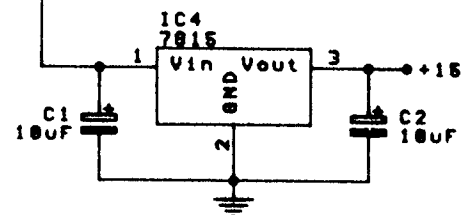
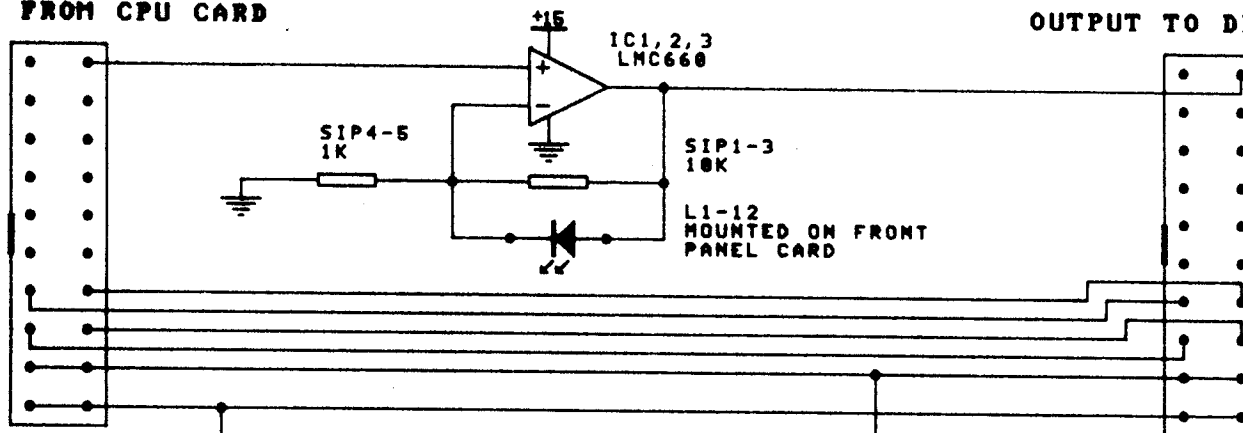


14-PIN CANNON  
(AS VIEWED FROM FRONT)

DRAWN BY: SPEEDIE	N/A:	SCALE	DATE
(C) JANDS ELECTRONICS P/L			9/9/88
DWG NAME: C007.00		DRAWING NO.	
LOW-VOLTAGE CONNECTIONS		1265.40/C7.0	

INPUT FROM CPU CARD

OUTPUT TO DRIVE CARD



Title ROADPAK DIGITAL MIMIC CARD		
Size A4	Number 1265.40/B23.1	Revision
Date: 4-JAN-1980	Sheet 1 of 1	Drawn By: D. J. H. 75
File: DIGRPH/1		



**Jands Electronics Pty. Ltd.**

**Analogue lighting control cable wiring.**

**Please note that some products may vary from the table below, and as such, this should only be used as a rough guide.**

<b>BURNDY</b>	<b>NAME</b>	<b>14 PIN CANNON</b>	<b>WIRE COLOUR (MAY VARY BETWEEN PRODUCTS)</b>
<b>A</b>	<b>1</b>	<b>A</b>	<b>WHITE</b>
<b>B</b>	<b>2</b>	<b>B</b>	<b>BLACK</b>
<b>C</b>	<b>3</b>	<b>C</b>	<b>BROWN</b>
<b>D</b>	<b>4</b>	<b>D</b>	<b>GREY</b>
<b>E</b>	<b>5</b>	<b>E</b>	<b>PURPLE</b>
<b>F</b>	<b>6</b>	<b>F</b>	<b>BLUE</b>
<b>G</b>	<b>7</b>	<b>G</b>	<b>ORANGE</b>
<b>H</b>	<b>8</b>	<b>H</b>	<b>GREY-BLACK/YELLOW-RED</b>
<b>J</b>	<b>9</b>	<b>I</b>	<b>RED</b>
<b>K</b>	<b>10</b>	<b>J</b>	<b>YELLOW-BLACK/YELLOW-BLUE</b>
<b>aa</b>	<b>GROUND</b>	<b>K</b>	<b>GREEN/GREEN-RED</b>
	<b>A.C. VOLTS (L.V.)</b>	<b>L</b>	<b>N.C. (ORANGE-BLACK)</b>
<b>L</b>	<b>11</b>	<b>M</b>	<b>YELLOW/WHITE-RED</b>
<b>M</b>	<b>12</b>	<b>N</b>	<b>PINK</b>

**Some lighting consoles received power from the dimmer. In this case, make sure that the power wire is connected to pin L of the 14 pin cannon.**

**If the lighting desk gets its power from a plug pack or direct from a power outlet, do not connect anything to pin L of the 14 pin cannon.**