

Thank you for buying a LightProcessor product. To obtain the best results, please read this instruction manual carefully.



Nous vous remercions d'avoir acheté un produit LightProcessor. Pour obtenir les meilleurs résultats, nous vous prions de bien vouloir lire attentivement ce manuel.



Wir bedanken uns für die Wahl eines LightProcessor-Produktes. Für eine reibungslose Bedienung lesen Sie sorgfältig dieses Handbuch.



Le damos las gracias que Ud. ha comprado un producto de LightProcessor. Para los mejores resultados lea cuidadosamente este manual.



Please be aware of the following warning notices and their meaning!
Veillez faire attention aux avertissements suivants!
Beachten Sie bitte die folgenden Warnungen !
Des cuenta de los siguientes avisos importantes!



CAUTION! RISK OF ELECTRIC SHOCK
ATTENTION! RISQUE DE CHOC ELECTRIQUE
ACHTUNG! GEFAHR EINES STROMSCHLAGES
¡ATENCIÓN! PELIGRO DE SHOCK ELECTRICO



CAUTION! REFER TO INSTRUCTION MANUAL
ATTENTION! REFEREZ-VOUS AU MODE D'EMPLOI
ACHTUNG! BEACHTEN SIE BITTE DIE BEDIENUNGSANLEITUNG
¡ATENCIÓN! REFERIRSE AL MANUAL DE INSTRUCCIONES



IT IS ESSENTIAL THAT YOU MAKE AN EARTH CONNECTION BEFORE CONNECTING THE DIMMER TO THE MAINS SUPPLY .
IL EST INDISPENSABLE DE RACCORDER L'APPAREIL A LA TERRE AVANT D'ETABLIR LA CONNECTION AU SECTEUR.
VOR ANSCHLUSS DES DIMMERS BITTE UNBEDINGT EINE ERDUNG DURCHFÜHREN.
ALTA VOLTAJE. NECESITA ABSOLUTAMENTE UNA CONEXION CON TIERRA ANTES DE HACER LA CONEXION A LA RED.

CON-

The material contained in this document is for information purposes only and is subject to change without notice. LightProcessor Limited assumes no responsibility for any errors or omissions that may appear in this manual.

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ACCESSORIES PACKED WITH THE PRODUCT

Instruction Manual
Wall-mounting Template
Mounting Brackets

OPTIONAL EXTRAS

Plug-in DMX Connector Plate, ref: PS2DMXPLUG
Analogue Control Board DMN18ANABD
Scene Control Board DMN18SCN
Single Phase Busbar DMN18X1BUS

GENERAL INSTRUCTIONS

Read the instructions in this handbook carefully, as they give important information regarding safety during installation and use.

Be sure to keep this manual with the product for ease of future reference. If the product is sold or given to another operator, make certain that they also receive the manual.

- This product is not intended for home use.
- After removing the packaging, check that the product is not damaged in any way. If in doubt, do not use it. Contact an authorised LightProcessor distributor.
- Packaging material (plastic bags, foam, nails etc.) must not be left within the reach of children, as it can be dangerous.
- The product must only be operated by adults. Do not allow children to tamper or play with it.
- The electrical work necessary for installing the product must be carried out by a qualified electrician.

NEVER USE THE PRODUCT UNDER THE FOLLOWING CONDITIONS:-

- In places subject to excessive humidity
- In places subject to vibrations or bumps
- In places with an ambient temperature in excess of 30°C or less than 0°C
- Protect the product from excessive dryness or humidity (ideal conditions are between 35% and 80%)
- Do not dismantle or modify the product
- Ensure that no liquids or metal objects enter the product
- Should any liquid be spilled on the product, disconnect the power supply immediately
- In the event of serious operating problems stop using the product immediately and either contact the nearest LightProcessor distributor for assistance or contact the manufacturer directly
- Never try to repair the product yourself. Repairs by unqualified people could cause damage or faulty operation. Contact your nearest LightProcessor dealer
- When carrying out any work, always comply (particularly regarding safety) with all regulations in force in the country in which the product is being used

The convention used in this manual is to refer specifically to values appropriate to the Dimension 18, 18 x 10A model with the corresponding values for the Dimension 12 appearing in brackets. Your attention is drawn to the specification on page 14.

QUICK SET-UP AND INSTALL

1. Unpack the Product. (Ensure you do not throw away any accessories packed separately in the box.)
2. Remove the screw at each corner and lift off the front panel, taking care to release the earth strap.
3. Secure the mounting brackets to the wall with the aid of the template provided.
4. If you intend to connect the unit to a single phase supply, fit a single phase busbar. This will allow use up to 60A maximum input current.
5. Check that the mains input voltage selector link(s) is correctly set for the supply to be connected (115/230V).
6. Connect the earth cable to the input isolator's earth terminal and then connect the power input neutral and phase cables.
7. Check that the loads are correctly wired and then connect the output load cables.
8. Connect the signal input cables, figs. 7-9, page 8.
9. Set the required DIP switch options, fig. 12, page 11.
10. Replace the front panel, ensuring that the earth is connected, and apply power.
11. Please take the time to read the full instruction manual which contains information on:-
 - a) The safe use of the product
 - b) Setting up the special features
 - c) Routine maintenance

INTRODUCTION

The Dimension 18 and Dimension 12 dimmers are 18- and 12-channel power packs respectively, providing both switching and dimming outputs of 6A or 10A per channel, depending on the model. They use USITT DMX512 (1990) as their control protocol. They are suitable for both inductive and resistive loads.

They are designed for fixed installation, mounted to a vertical wall or permanent structure. They are ideal for use in entertainment venues, audio-visual presentations and architectural lighting applications. The Dimension dimmers are fan-cooled and are suitable for continuous duty cycles.

Dimension 18

The eighteen output channels are spread across three six-channel modules. Channels 1-6 are found on module no. 1, channels 7-12 on module no. 2 and channels 13-18 on module no. 3. Modules 1 and 2 may be set to switch or to dim. Module no. 3 is fixed by default to dim but may be specially ordered as a switching module.

Dimension 12

The twelve output channels are spread across three four-channel modules. Channels 1-4 are found on module no. 1, channels 5-8 on module no. 2 and channels 9-12 on module no. 3. Modules 1 and 2 may be set to switch or to dim. Module no. 3 is fixed by default to dim but may be specially ordered as a switching module.

Overload and short circuit protection is provided by circuit breakers on each channel. There are visual indicators to show the status of the power input, signal input to the modules and the mains voltage output of each channel.

Internal DIP switches are used:-

- (a) To determine whether modules 1 and 2 will switch or dim
- (b) To switch preheat on/off
- (c) To determine what happens in the event of a DMX failure
- (d) To set DMX start address
- (e) To terminate the DMX line
- (f) To set the mains frequency
- (g) To carry out test procedures

The Dimension 18 (12) is especially suitable for use in installations which include emergency lighting. Because the individual channel circuit breakers are situated before the dimming electronics in the circuitry, no re-wiring of the pack is necessary for the correct operation of non-maintained emergency lighting.

POWER REQUIREMENTS

Where the installer finds that the general electrical installation dictates that the dimmer's C curve circuit breakers must be changed for B or A curve breakers, it will be noted that the design of the Dimension dimmer makes this a relatively easy task.

The Dimension 18 (12) must be earthed and protected externally by a suitable over-current device.

It operates on

230V AC or 115V AC, 3-phase and neutral, star

230V AC or 115V AC single phase and neutral (60A)

Maximum input current 60Amps single phase (both models).

Maximum input current 60Amps per phase, 3-phase for the Dimension 18.

Maximum input current 40Amps per phase, 3-phase for the Dimension 12.

FIXING TO THE WALL

The Dimension 18 (12) is designed to be wall-mounted. The wall should be of non-combustible material. It is supplied with brackets to assist the installer in the task of mounting the unit. The unit should always be mounted on the brackets, never directly on the wall, thus allowing an airspace between the unit and the wall. Before proceeding, bear in mind that the unit is 578mm(h) (490mm.) x 438mm(w) x 120mm(d) in size and weighs nearly 20Kg. Choose mounting screws and plugs accordingly.

Fig. 1 shows how the mounting brackets are used differently, depending on whether a single unit or multiple units are to be installed.

Spacing of Mounting Brackets

Horizontal -

Single unit 381mm. centres.

Multiple units 410mm. centres at end of row, 439mm. centres in middle of row. See Fig. 1 below.

Vertical -

975mm. (allows 300mm. heat dissipation gap and 100mm. for trunking) between rows.

Dimension 18 - Top bracket mounting hole is 25mm. below top edge of Dimension 18. Therefore the uppermost bracket mounting hole will be a minimum of 325mm. below ceiling height.

Dimension 12 - Top bracket mounting hole is 32mm. below top edge of Dimension 12. Therefore the uppermost bracket mounting hole will be a minimum of 332mm. below ceiling height.

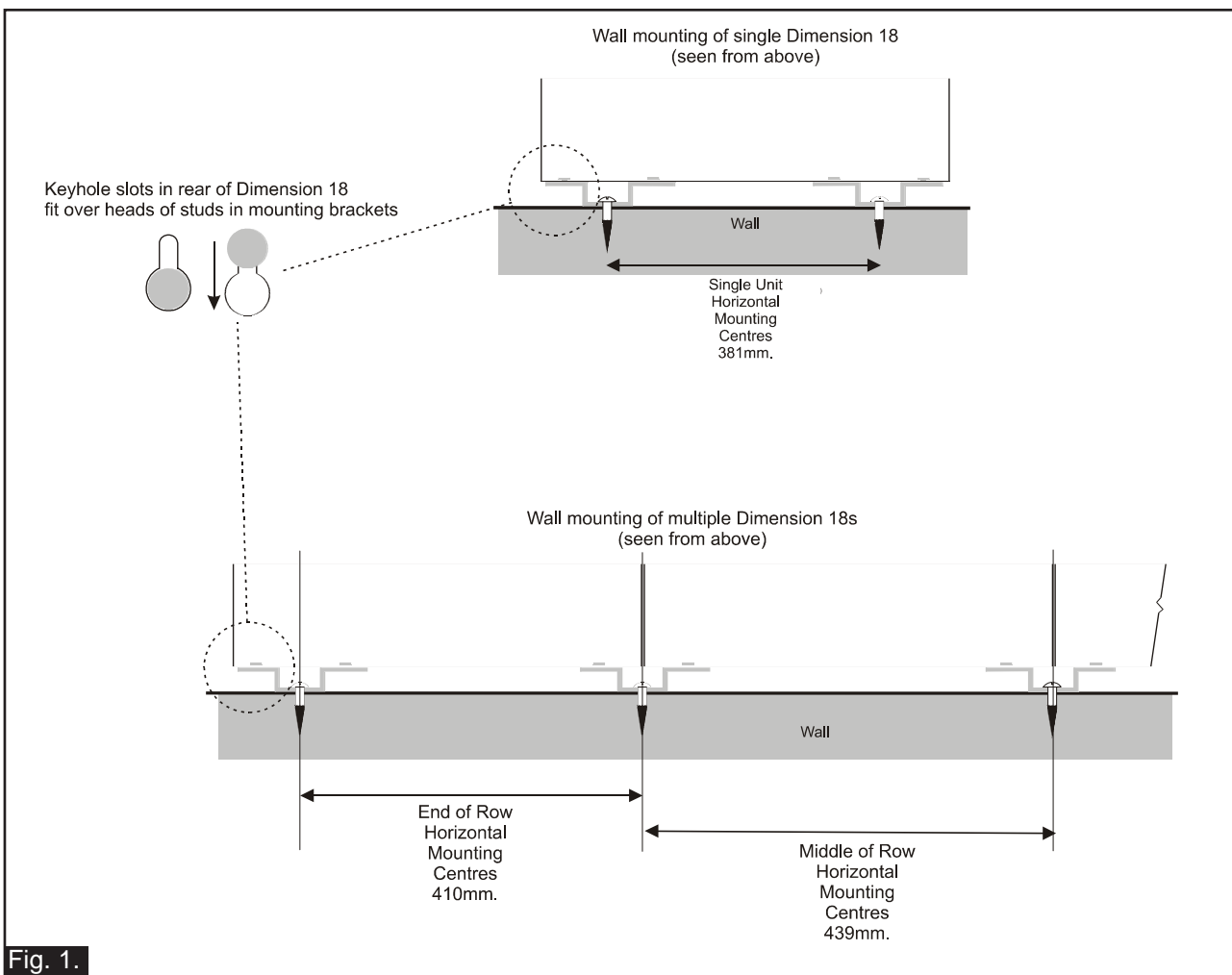


Fig. 1.

FIXING TO THE WALL, continued

Fig. 2 shows a detail of a multi-unit installation. Note that trunking is run below each row of Dimensions and that a 300mm. air gap is allowed above each row to allow for the dissipation of warm air expelled. Cool air is sucked into the lower part of the unit and expelled above. See the section in this manual on ventilation for further details of the thermal control system.

Depending on...

- the number of units in the installation
 - other equipment installed in the same room
 - the natural ventilation characteristics of the room
- ...it may be necessary to use extraction or air conditioning.

Open the Dimension dimmer by removing the four screws in the corners of the front panel. Detach the earth strap.

Taking the above guidelines into consideration fix the mounting brackets to the wall. Hang the Dimension dimmer on the mounting brackets, ensuring that the stud heads on the brackets properly engage in the keyhole slots on the rear of the Dimension dimmer. Connect the mains and control cables, re-attach the earth strap and replace the front panel.

USING THE TEMPLATE

Mark on the wall the top left corner (if working left to right) or top right corner (if working right to left) of the first unit. Use the template supplied to locate the position of the first top mounting hole (A).

Use the top mounting hole (A) as a reference for a vertical line on which to site the first mounting bracket and use the template to locate the other two mounting holes (B) and (C).

Use the first mounting hole (A) as a reference for a horizontal line. Use the template to site the top hole of the next mounting bracket (D1), (D2), or (D3).

Note that using the template will ensure that the mounting holes are positioned so as to fix the brackets the right way up.

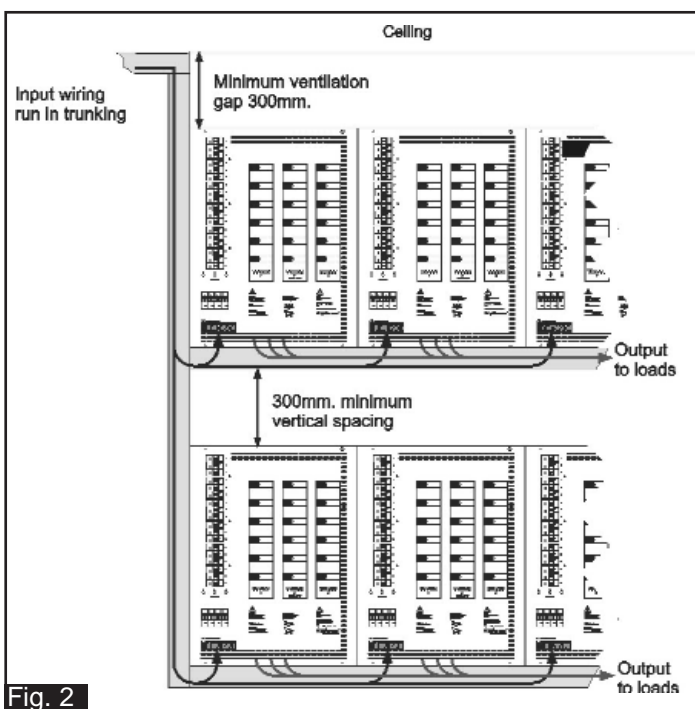
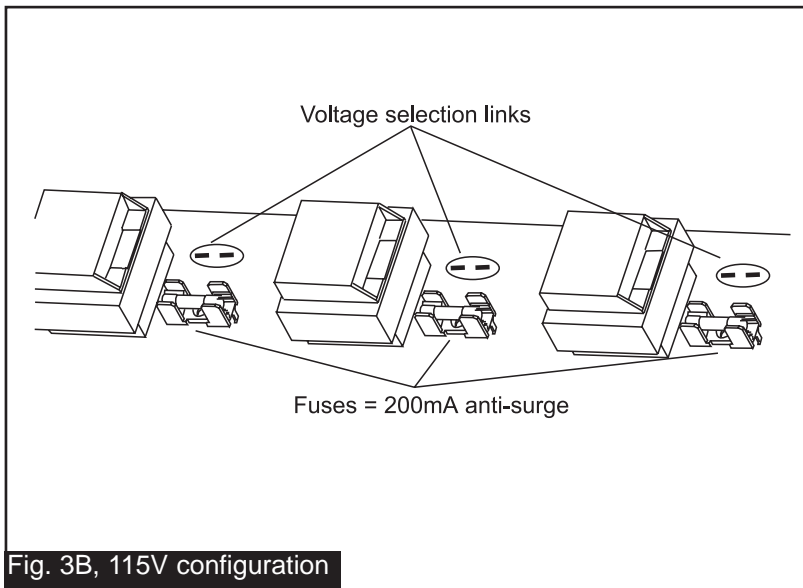
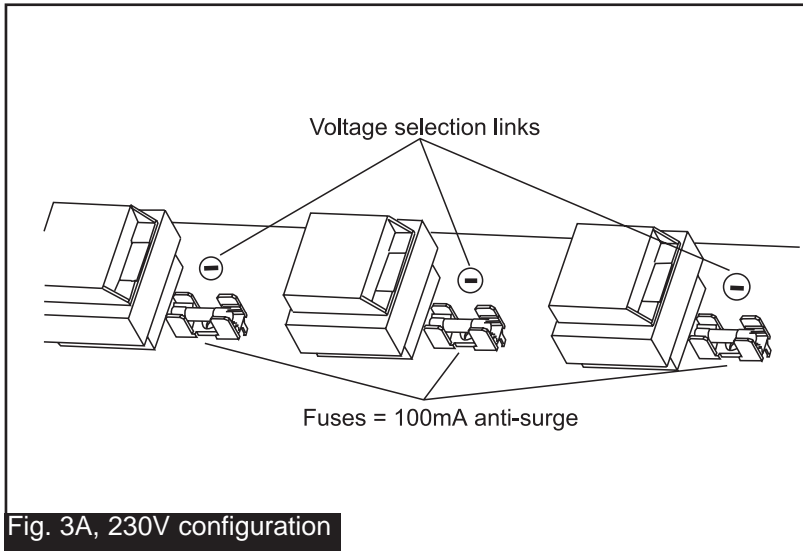


Fig. 2

VOLTAGE SELECTION

The Dimension 18 (12) can operate on 230V or 115V nominal systems. Note the voltage selection links positions and fuse values in Fig. 3(a) and Fig. 3(b). These items are found on the control board on the right hand side of the Dimension dimmer.



INPUT CABLING

Each Dimension 18 (12) should be protected by a readily-accessible over-current device as part of the building's general electrical installation. All installations must comply with local regulations.

The Dimension 18 (12) is principally designed for 115/230V 60A 3-phase star wiring and may also be wired single phase. See '•Single Phase' below. The input terminal block is situated on the isolator in the bottom left corner of the Dimension dimmer. Fit suitable crimps to all incoming conductors.

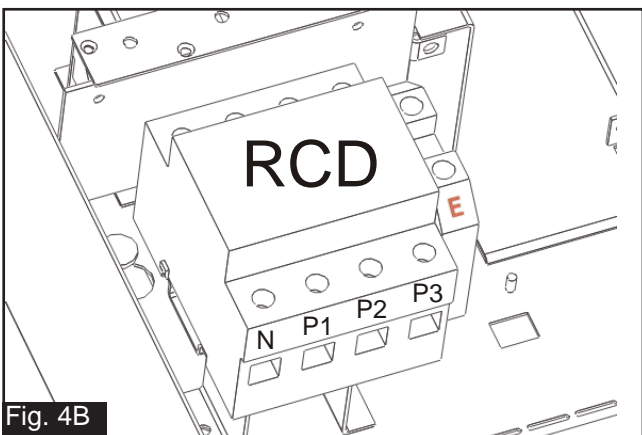
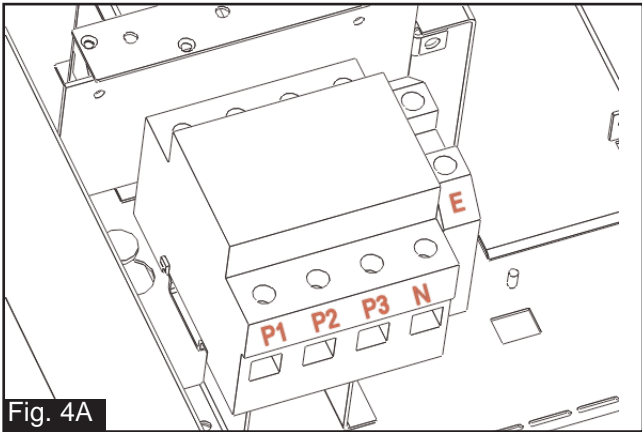
•Three Phase TP, N+E (Star)

Connect the earth conductor to terminal E of the isolator. Connect the three phases to the terminals P1, P2 and P3 (the phase order is not important) and the neutral conductor to terminal N, see Fig. 4A. Note that operation without a neutral is dangerous and may damage the product and loads connected to it. Note that when wiring the input to an RCD, the terminal configuration is different. See Fig. 4B below.

•Single Phase

Note that single phase input is restricted to a maximum of 60 Amps. A single phase busbar ref: DMN18X1BUS is available separately and must be fitted where a single-phase input is envisaged. Connect the earth conductor to terminal E. Fit the single-phase busbar on to the three phase terminals and connect the phase conductor to P2 and the neutral conductor to terminal N.

NOTE: The standard version of the Dimension 18 (12) is not suitable for three-phase delta wiring. Delta-specific models are available to special order.



SIGNAL INPUT/OUTPUT

The signal protocol is USITT DMX512. The DMX connections are made in the lower right corner of the Dimension 18 (12) by hard-wiring to the terminal block provided, as detailed in Fig. 5 below. It is essential that one of the blanking plates is fitted in the upper internal position A (see fig. 6) to shield the DMX wiring from the mains inside the pack. To facilitate the wiring operation, the connector block is removeable.

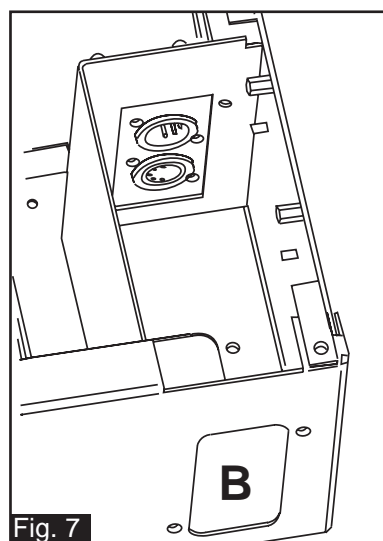
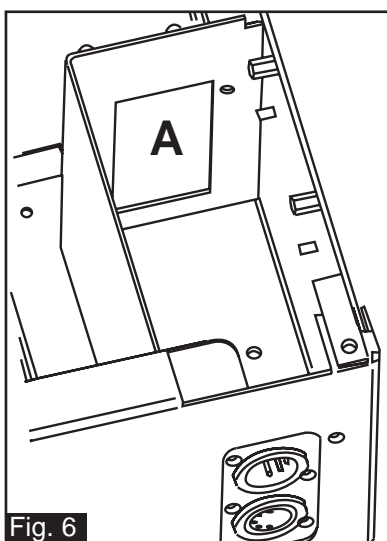
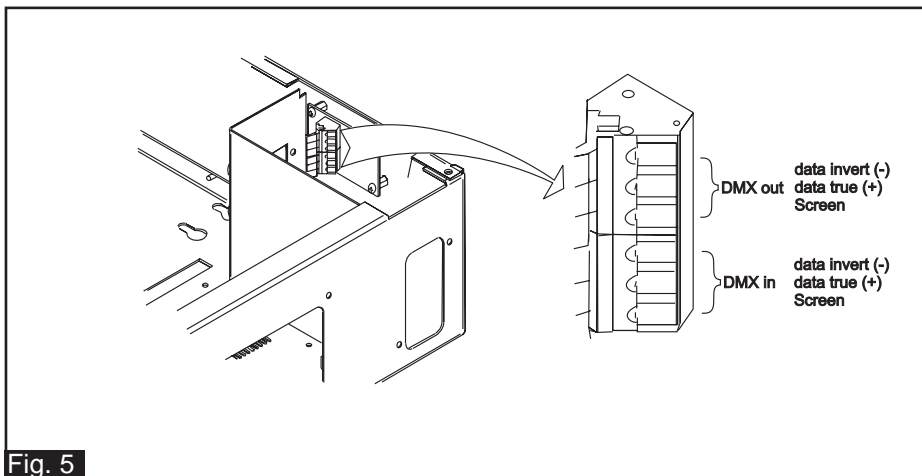
Alternatively, XLR5 connectors, mounted on a movable plate, may be used. This plate, ref. PS2DMXPLUG, is available as an optional extra.

Where no trunking runs along the bottom edge of the Dimension dimmer, the connectors may be mounted inside the bottom face, as in Fig. 6. Fix the blanking plate at position A. Where trunking is being used, the plate may be mounted internally as shown in Fig. 7 and the blanking plate at position B. *In diagrams 6 and 7 below the hardwired DMX connector block is not shown for the sake of clarity.*

DMX cables may be brought in from the rear or from below. Note that low voltage DMX cables should not be run in the same trunking as mains voltage input and output cables.

Cables should be connected to XLR5 plugs as follows:-

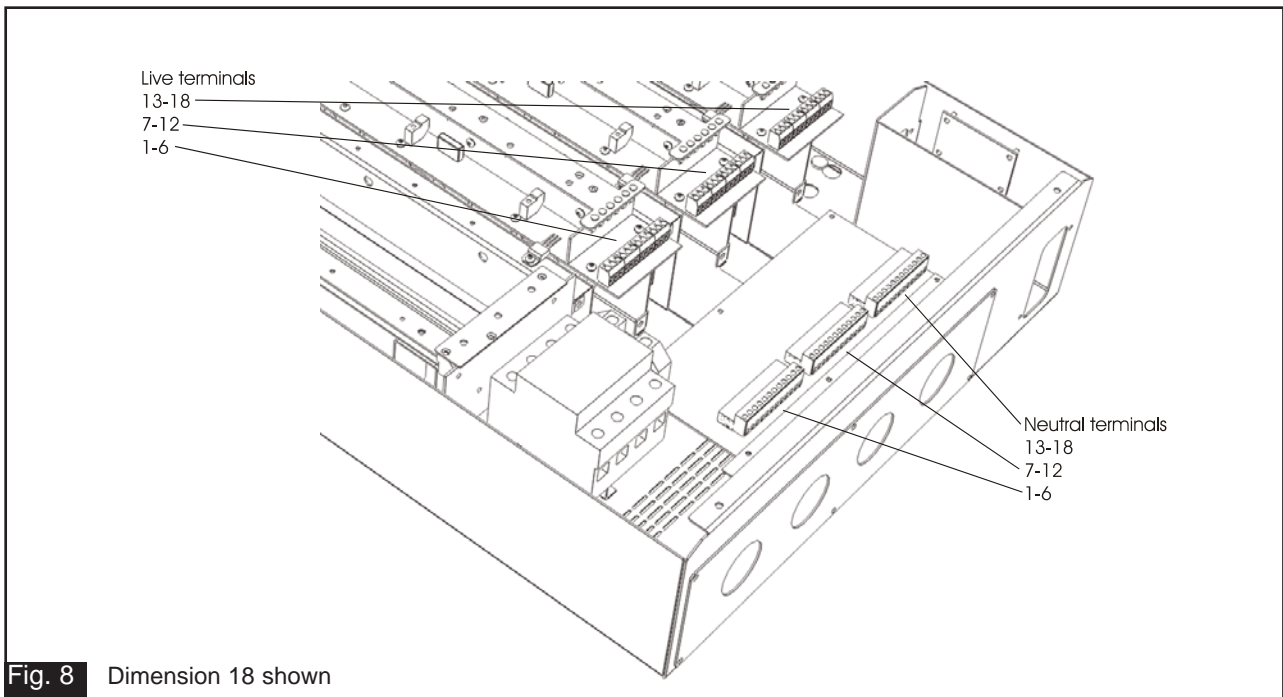
- pin 1 - screen
- pin 2 - data invert
- pin 3 - data true
- pin 4 - not used
- pin 5 - not used



OUTPUT CABLING

Fig. 8 shows the output terminal arrangement. Connect the live and neutral cables from a channel to live and neutral terminals of the same-numbered channel. It is recommended that you label cable runs appropriately to avoid later confusion.

Make DIP switch settings, as appropriate; these are described in the section - Configuring the Dimension dimmer.



VERIFYING THE INSTALLATION

The status of the Dimension dimmer may be verified as follows. See fig. 9 below.

- Phase Input Status

A satisfactory power input may be verified by the three phase indicators at A. A missing phase will render a complete 6-channel (4-channel) module inoperative.

- Electronics Status

Power to the three modules is indicated by the LEDs at position B. These are situated next to the DIP switches on the right hand side of the enclosure. These show the status of the microprocessors monitoring each phase.

When power is applied from any phase to the control module, the three red LEDs will light. During the first few seconds the LEDs will flash in unison to confirm that the processors are communicating with each other.

If all three LEDs remain lit, then the control board is operating normally.

If, after the initial 5-10 seconds of flashing, the LEDs start to flash at a faster rate, then the product's DMX start address has been set to zero. All outputs will be at zero and the pack will not respond to a DMX input.

- Channel Control Status

Control input to the channels is indicated by LEDs C.

- DMX Status

An incoming control signal is indicated by LED E. Note that this does not necessarily mean that the signal being received is valid DMX. Note that, in the event that the Dimension 18 is fitted with either an analogue input board or a scene control board, this LED will be permanently illuminated.

- Channel Output Status

Output levels are indicated approximately by the LEDs at D.

When installation is complete, check that all connections are secure and withdraw any excess cables from the enclosure. Re-attach the earth strap and replace the front panel and front panel screws.

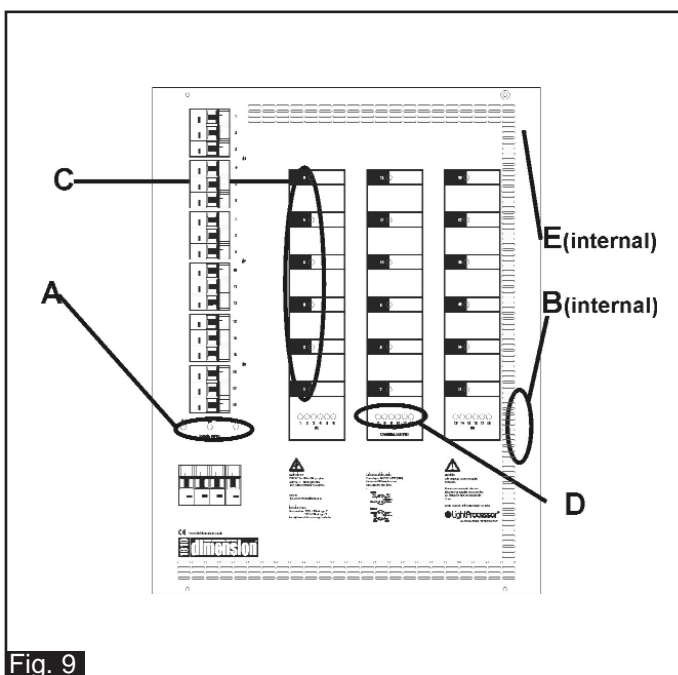


Fig. 9

TESTING THE OUTPUTS

The outputs may be tested as shown in the table below by setting the appropriate DMX address, switching off the power and then re-applying it. After the required test has been performed, set a valid DMX address, switch off the power and then re-apply it.

DMX address	Switch Settings	Test Function
511	111111 111	Modules 1+2+3
510	111111 110	Modules 2+3
509	111111 101	Modules 1+3
508	111111 100	Module 3
507	111111 011	Modules 1+2
506	111111 010	Module 2
505	111111 001	Module 1
504	111111 000	None

VENTILATION

Fig. 11 shows the ventilation air flows of the Dimension dimmer. Note that the cooling of each module is controlled independently of the others. Cool air is drawn through the fans, thus maximising fan life. Warm air is expelled through the top. There are three progressive stages of thermal control:-

1. The fan operates when the module it is attached to becomes warm enough to require additional cooling.

If this does not return the module to the correct working temperature, then...

2. Modules set to 'switch' (not 'dim') shut down channels 1, 3 and 5 of that module, thus halving power output; modules set to 'dimming' will reduce the output of all channels by 50%. The cause of the overheating should be identified and corrective action taken.

If this does not return the module to the correct working temperature, then...

3. The module shuts down completely. The other two modules will continue to function normally but the Dimension dimmer must be switched off and on to re-boot the microprocessor in the shut-down module before that module can be used again.

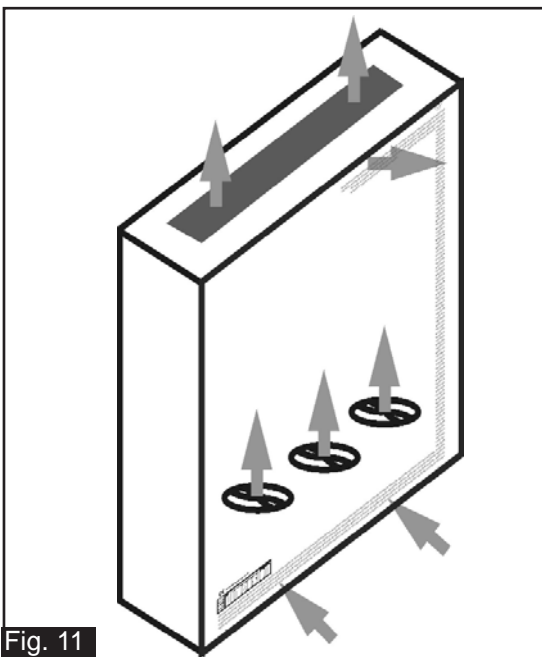


Fig. 11

MAINTENANCE

As with all commercial products of this type, it is the responsibility of the user/owner of the equipment to apply test and maintenance procedures to ensure compliance with local laws and regulations. Regular internal inspection by qualified personnel will ensure reliable operation. Accumulated dirt and dust should be removed carefully. There should be no loose cables within the unit. Any cables/connectors showing signs of wear or damage should be replaced. Any internal installation wiring should be kept to a minimum and kept clear of the heatsinks. The cooling fans are the only moving part; they have a normal lifespan of approximately five years. Rotate fans manually to assess their state of health. Keep the fans and airways free from dust and dirt. Do not use a high pressure pneumatic line for this purpose, as it may damage the fan motor and electronics.

Changing a Module

The Dimension dimmer must be externally isolated before work begins.

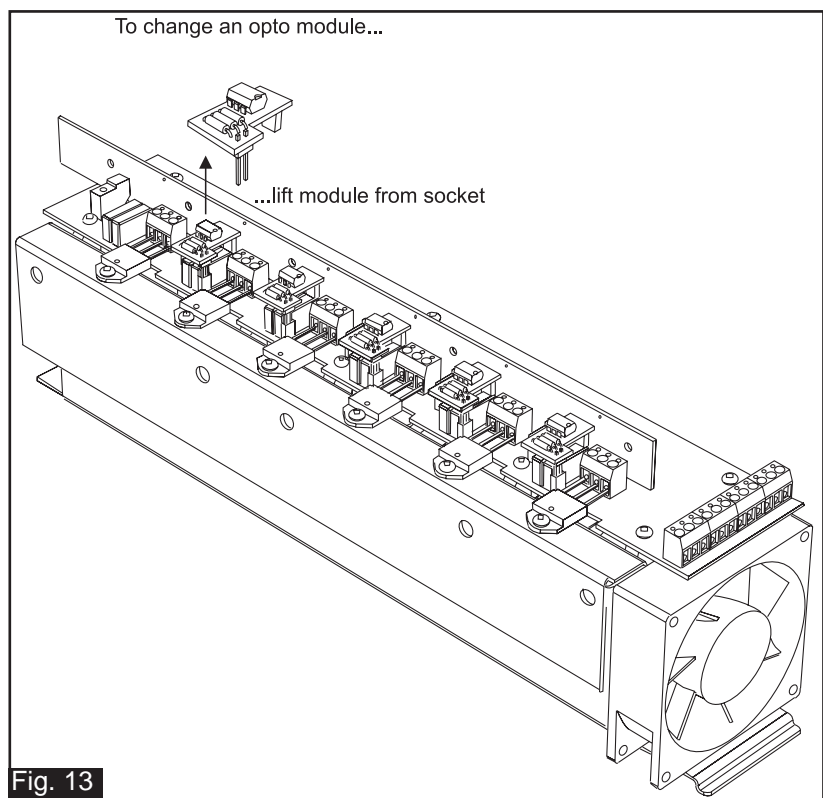
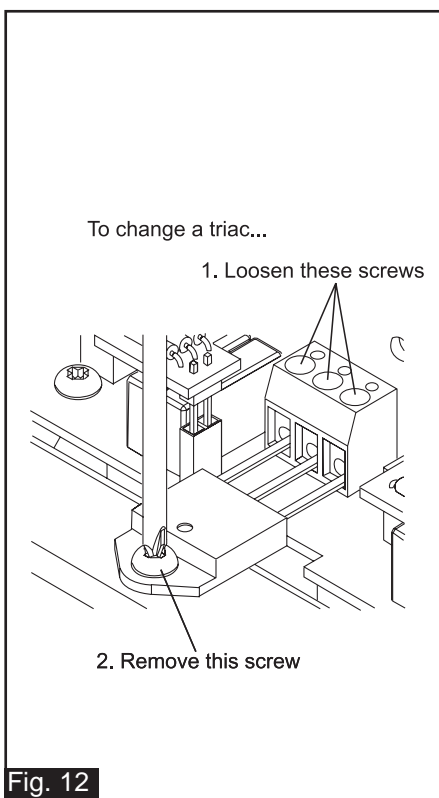
The two connectors at the top of the relevant module must be disconnected, together with the output connector at the bottom. When they have been unplugged, loosen (but do not remove) the M4 nut located at the top left of the module and remove the module. (If lost, this nut must be replaced by an M4 Nyloc nut). Slide the module upwards until it stops, then pull it forward and remove it. Reverse the procedure to replace a module.

Changing Triacs and Optos (see SPARE PARTS for specifications)

The Dimension dimmer must be externally isolated before work begins.

Triacs may be changed with the aid of a screwdriver. Loosen the three terminal screws and remove the single heatsink screw. Replace the triac and re-secure the screws. See Fig. 12.

Opto modules may be removed simply by pulling them from their sockets. See Fig. 13.



SPECIFICATION

Power Supply:	Single Phase, or Three Phase Star
Voltage Range:	230V or 115V nominal AC (selectable)
Supply Frequency:	45-65Hz (50/60Hz operation user selectable)
Power Consumption (max.):	18 x 10A 6.9kW - Single Phase 115V 13.8kW - Single Phase 230V 20.7kW - Three Phase 115V (18 x 10A) 41.4kW - Three Phase 230V (18 x 10A)
	12 x 10A 6.9kW - Single Phase 115V 13.8kW - Single Phase 230V 13.8kW - Three Phase 115V (18 x 10A) 27.6kW - Three Phase 230V (18 x 10A)
Maximum input current:	Single Phase - 60A max Three Phase - 120A max (12 x 10A) Three Phase - 180A max (18 x 10A)
Dimming Capacity:	18 (12) Channels Each channel 10A max. (continuous use) Resistive or inductive Minimum load recommended 25W
Output Connectors:	Hardwired Terminal Blocks
Output Protection:	18 x 10A miniature circuit breakers. Type C. 10kA rated breaking capacity. 12 x 10A miniature circuit breakers. Type C. 10kA rated breaking capacity.
Control Input:	USITT DMX512(1990) (optional 0-10V analogue available)
Channel Map:	18 (12) channels from start address
Environment :	Temperature 0-30°C Relative Humidity 0-90% non-condensing Pollution Degree 2 Installation Category 2 Protection Classification IP30
Conformance	LVD (using EN60439 and EN60950) EMC (using EN55014 and EN50082-1)
Physical Characteristics	Wall Mountable
Dimensions:	Dimension 18 - 578mm(h) x 438mm(w) x 150mm(d) when installed Dimension 12 - 490mm(h) x 438mm(w) x 150mm(d) when installed
Weight (unpacked):	Dimension 18 - 19Kg. Dimension 12 - 16Kg.

SPARE PARTS

Description	Reference
Module Fan	FAN/12V/PS
Channel Output Choke	2KCHOKE/LP
Control PCB PSU fuse	F200MA2AS (for 115V operation) F100MA2AS (for 230V operation)
Mains Transformer	T6VA/12012
Triac	T26-600
Opto Module	PS2OPTO
6A Circuit Breaker	BREAKER/6
10A Circuit Breaker	BREAKER/10

ALWAYS INSIST ON ORIGINAL SPARE PARTS BEING FITTED

WARRANTY STATEMENT

LightProcessor provides a warranty against manufacturing defects for all Products for a minimum period of twelve months from date of purchase provided that the Products have not been subjected to any unauthorised modification or repair.

LightProcessor shall not be liable to the Customer by reason of any representation or any implied warranty, condition or other term or any duty at common law for any indirect, special or consequential loss or damage, costs, expenses, or other claims for compensation whatsoever which arise out of or in connection with the sale or supply of the Products or their use or resale by the Customer.

All items added to the Product by the Customer, its agents or customers, must be removed from the Product prior to return to LightProcessor. The return of the Product shall authorise LightProcessor to remove any such items. LightProcessor shall not be obliged to reconnect any such items before returning the Product. LightProcessor will not be under any liability in respect of such items.

The liability of LightProcessor to its Customers for death or personal injury resulting from our negligence is unlimited. Apart from that, LightProcessor will not in any event be liable to its Customers for indirect or consequential loss, and any liability on behalf of LightProcessor for any loss or expense shall be limited to the contract price of the defective goods.

The cost of shipping defective Product back to LightProcessor is borne by the Customer. The cost of shipping back to the Customer is borne by LightProcessor.

LightProcessor reserves the right either to repair or replace any defective Product

WARRANTY REPAIRS PROCEDURE

Prior to any Product being shipped for warranty repair or replacement the Customer must have applied for a "Warranty Authorisation Number". These can be obtained from the Sales Administration Manager at LightProcessor's Head Office.

LightProcessor will then issue a 'Warranty Fault Report' that must be completed in all respects by the Customer. Failure to complete the 'Warranty Fault Report' may cause delays in processing the repair of the Product.

The completed 'Warranty Fault Report' may either be Faxed, E-Mailed, Mailed or accompany the Product when it is returned

LightProcessor will advise the Customer within 1 working day of the receipt of the Product or the Warranty Fault Report, whichever is the later, whether or not it accepts that the Product is covered under Warranty.

Warranty Repairs will be completed within 2 working days, subject to spare parts being available, and will be returned to the Customer without delay.

Should a Product be returned for repair in damaged packaging or other than its original, LightProcessor reserves the right to re-package the Product in its correct packaging and to charge £20.

NON-WARRANTY REPAIRS PROCEDURE

Prior to any Product being shipped for repair the Customer must have applied for a "Repair Authorisation Number". These can be obtained from the Sales Administration Manager at LightProcessor's Head Office.

LightProcessor will then issue a 'Repair Fault Report' that must be completed in all respects by the Customer. Failure to complete the 'Repair Fault Report' may cause delays in processing the repair of the Product.

The completed 'Repair Fault Report' may either be Faxed, E-Mailed, Mailed or accompany the Product when it is returned

LightProcessor will advise the Customer within 5 working days of the receipt of the Product or the Repair Fault Report, whichever is the later, the Estimated Cost of Repair excluding labour and carriage.

Non-Warranty Repairs will be completed within 10 working days of receipt by the Customer of the Repair Cost Estimate, subject to spare parts being available, and will be returned to the Customer without delay.

Should a Product be returned for repair in damaged packaging or other than its original, LightProcessor reserves the right to re-package the Product in its correct packaging and to charge £20.

Also available from LightProcessor

- QCommander automated lighting control system
 - QCommander 256 (standard and extended models)
 - QCommander 512 (standard and extended models)
 - Input Extender fader panel
 - Replica memory store and playback unit
- DMX Tools
 - DMuX demultiplexer
 - Store memory store and playback unit
 - Merge DMX merge and multiplexer
 - Buffer DMX splitter, isolator and booster
- Paradime digital dimmer range
- Analogue and DMX 2-preset desks
 - Q12
 - Q24
- Analogue and DMX 1-preset desks
 - Zip 6
 - Zip 12
 - Zip 18