Betapack DMX512 Input Kit Instructions

Introduction

A DMX cable from a lighting desk carries control signals for 512 dimmer channels. The Betapack DMX Input card will decode any sequential group of six channels out of the 512. The DMX OK led indicates when error free DMX data is being received.

Warning

Disconnect from supply before starting

To Fit the DMX Input Kit

1. Disconnect from the mains supply
2. Remove the two screws securing the rear plate.
3. Remove the rear plate by pushing it down and pulling the top towards you.
4. Remove the two side screws securing the right hand glanding plate (the one furthest from the mains input).
5. Disconnect the yellow signal input loom from the Betapack main board and connect it to the DMX Input card.
6. Connect the flying lead from the DMX Input card to the Betapack main board.
7. Secure the DMX input card in position with the two side screws.
8. Fit the two XLR connectors to the front panel of the Betapack.
9. Connect both sets of wires into the 'DMX IN' terminal block on the card with reference to the connections shown opposite.
10. Use tyraps provided to secure wires to existing yellow loom.
    (NOTE this will be made easier by removing the bottom panel)
11. Reassemble in reverse order.

Setting the Start Channel

The start channel address determines which group of six channels the card will decode. For example; if the start address is 105, channels 105, 106, 107, 108, 109, and 110 will control the six Betapack channels. The start address may be set between 001 and 507.

Note: If the 100's switch is set to 6 or 7, the other two switches set the pack number (between 01 and 84). If an undefined switch setting is used the default 001 will be assumed.

Cables for DMX Transmission

The maximum cable length between a desk and the Betapack will depend on several factors including:

Type of cable used
Number of DMX Betapacks connected
Electrical environment

Zero 88 recommend that shielded twisted pair approved for RS422/485 (e.g. Belden 9841, Belden 9501 or Alpha 5271) is used. Communication over a hundred metres should normally be possible without problem, however for longer cable runs, it may be necessary to fit a DMX Termination Plug (Stock No 269) to the last Betapack in order to ensure completely error free data transmission.

Substitution of microphone, or other types of cable may be possible, but data transmission errors are more likely, particularly over long distances.

Fitting

This item should only be fitted by a suitably experienced or trained technician.

Technical Specification

Data reception conforms to USITT DMX512 1990 standard and earlier automatically.

Power Supply +16V to +28V @ 85mA
(supplied from Betapack)

XLR Connections

Pin 1: 0V (Signal common)	Screen
Pin 2: 1- (Dimmer Drive Compliment)	Red
Pin 3: 1+ (Dimmer Drive True)	Black
Pin 4: Spare	
Pin 5: Spare	

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This equipment is designed for use with a Betapack dimmer unit only and is unsuitable for any other purpose.

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