Four Channel Non-Dim Unit

The Photon Beard Four Channel Non-Dim unit is a DMX512 controlled power switching unit. It is intended to supply power to any electrical equipment up to 16A load in response to a DMX control signal. Switching is by relay contacts timed to coincide with zero crossing on the AC supply. Typical applications include remotely powering moving lights, motorised effects or any equipment that may draw current when not in use.

It is physically the same size as the Photon Beard Four Channel Dimmer and may be mounted in exactly the same way.

Controls and Indicators

From left to right the controls and indicators are as follows:

Circuit Breakers

There are four 16A circuit breakers, two on each side and one for each outlet. They cannot be reset remotely and are intended for fault protection.

Power Led

This green led indicates that AC power is connected.

Trip Led

This red led will flash to indicate a channel outlet with the circuit breaker set to off. It will only flash if that outlet is commanded on by the DMX control.

Test Button

This button will advance one channel for each press and will switch on the corresponding channel. If the last channel selected was 4 the next press will switch off the Test function. In the event of the Test function being left on, there is a time-out after 13 seconds which will cancel any Test setting.

When Test is selected the DMX control is suspended and the DMX indicator will be switched off.

The Test function is indicated by the row of four green leds to the immediate right of the Test button.

DMX Indicator

This green led will light to indicate connection to valid DMX512 data. If a Wi-Light dongle is fitted the DMX indicator will light to show that the Wi-Light transmitter has valid DMX512 data.

DMX Address

These three rotary switches are preset with the DMX address corresponding to channel 1 of the Non-dim. They have the same function when using the Wi-Light system.

Wi-Light Port

This port is provided for the fitting of a Wi-Light dongle if required.

Termination Switch

A small slide switch is provided to add a built in terminator to the DMX512 input line. This should only be used if the Non-dim is the last unit on the DMX control line. The terminator is switched on by sliding it towards the DMX sockets.

DMX Connectors

A standard 5-pin DMX input and output connection.

DMX Hold-Last-State

In the event of losing DMX control the default setting is a two second time-out after which all outputs will be cleared. The alternative is to hold the last state before DMX was lost and this can be set by entering a special code using the address switches.

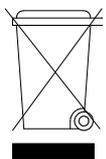To change to hold-last-state do the following:

1. Power down the unit.
2. Set the number 884 on the address switches.
3. Switch on power after which the DMX led should flash once.
4. Power down and re-set the address.

To clear back to the default setting, repeat the above but enter the number 880.

Specification

Number of channels	4
Maximum load per channel	16A
Supply voltage	200 - 250V 50Hz AC
Supply Current	Maximum 16A
Temperature range	0 - 40deg C
Control input	USITT DMX512, (optional Photon Beard Wi-Light)
Channel ON Threshold	40%
Channel OFF Threshold	30%
Mounting	Two M10 bushes in the top surface of the case, maximum screw depth 30mm.
Safety bonding	One 20 mm diameter hole at each end of the case to take wire safety bonds.
Dimensions	400 mm wide x 237 mm deep x 164 mm high (16" x 91/2" x 61/2").
Weight:	6 kg

RoHS Photon Beard products do not contain more than the maximum permitted levels of hazardous substances as laid down in the European directive on the restriction of use of certain hazardous substances

WEEE Under the European directive on the disposal of waste electrical and electronic equipment should only be disposed of through approved recycling facilities.

Photon Beard Ltd., Unit K3 Cherry Court Way, Stanbridge Road, Leighton Buzzard, Beds. LU7 4UH, UK.

Tel: +44 (0)1525 850911   Fax: +44 (0)1525 850922   Email:info@photonbeard.com Web: www.photonbeard.com