

Cherry Tree Lane Production Limited, Mary Poppins Returns - "DLX125/25" Series RGBWW LED Fountain Lights - Wiring Diagram

Drawing No./Status:

25934 Rev.A
For Despatch
17/02/2017



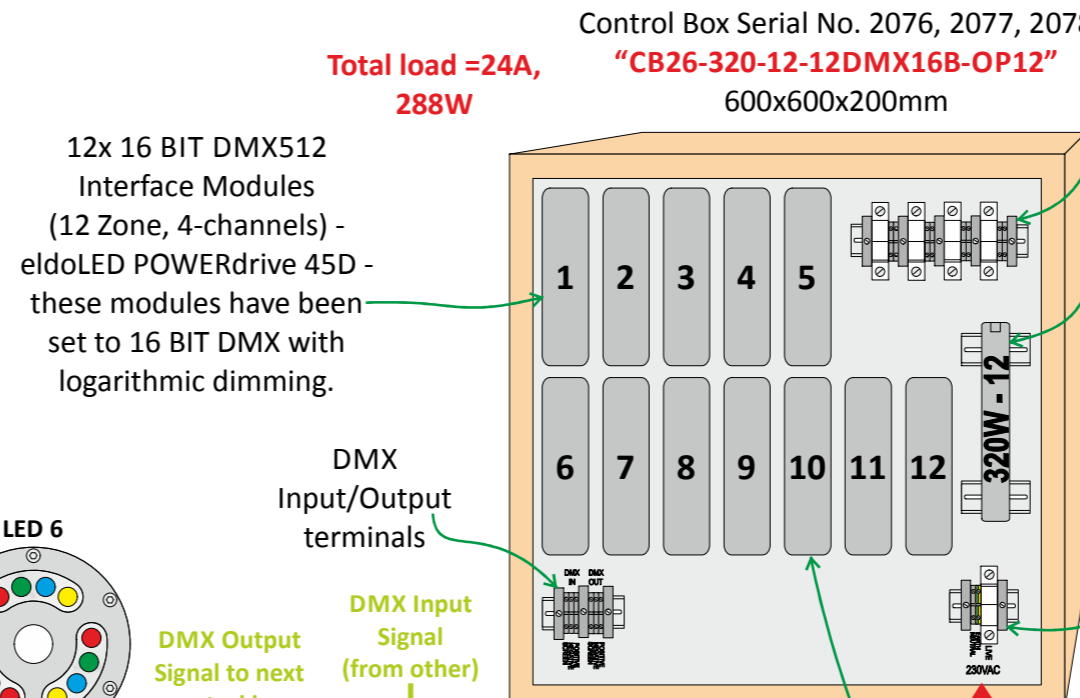
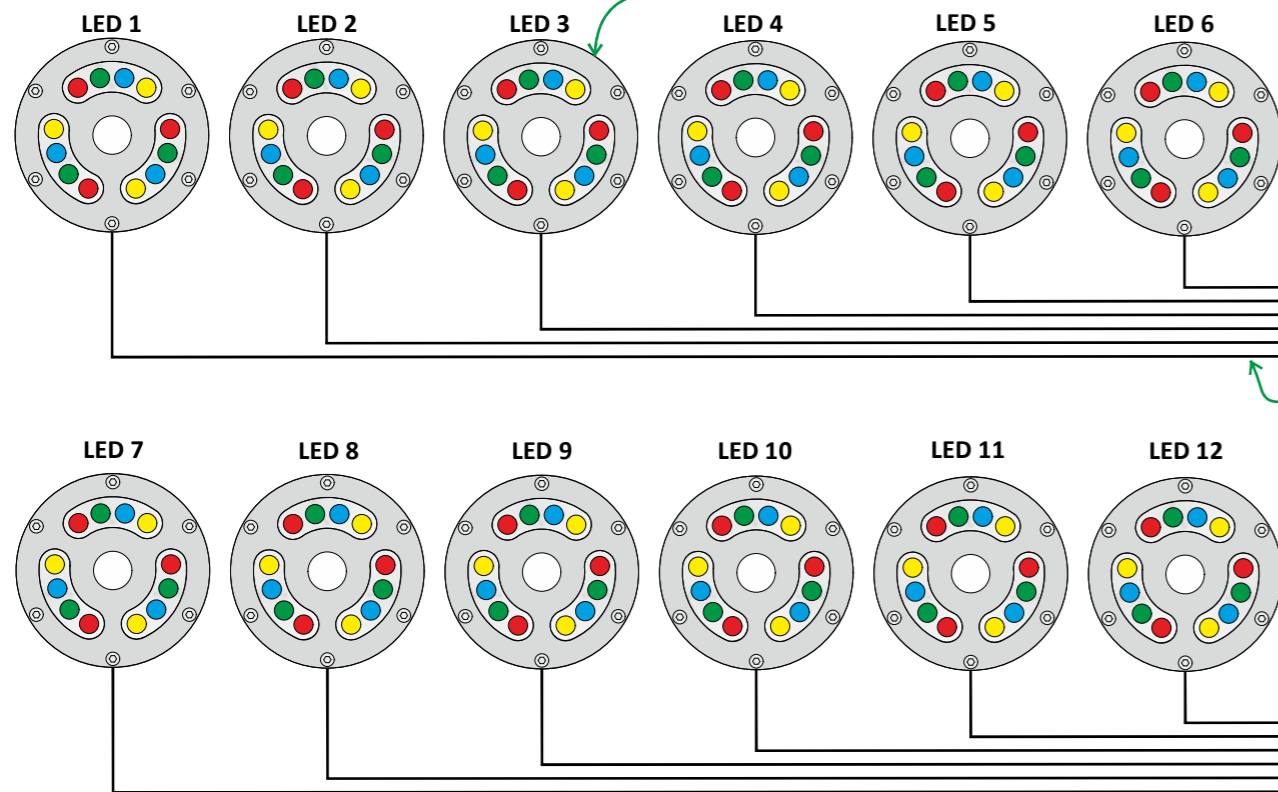
This scheme comprises 36x "DLX125/25" 4-colour (RGBWW) fountain lights and 3x control boxes. This drawing shows the typical wiring for one control box and 12 fountain lights. The "DLX125/25" luminaires are constructed from grade 316 stainless steel, fitted with Red, Green Blue and Warm White (3000K) LEDs, medium angle (30) optics, a clear toughened glass lens and terminated with a 15 metre 8-core tail. Each fitting cable is directly wired into a 16 BIT DMX module mounted inside the control box. Each control box contains a high efficiency 320W, 12VDC switch mode power supply, 12x 1Zone 16 BIT DMX modules and 12 outputs. The total power for this scheme is 864W.

There are 3 sets of this on the scheme.

Notes:

This scheme has a total of 36 individually controllable Zones of lighting (12 Zones per Control Box or 1 Zone per fitting) allowing each luminaire to be a different colour.
 The 16 BIT DMX signal (provided by other) is ran in and out of each box and terminated in the last box.

12x DLX125/25 LED RGBWW Fountain Lights
 Part No. "DLX125/25-SS-RGBWW-MA-C-500-15M"
 Ø125mm fountain light with Ø25mm hole, constructed from a stainless housing fitted with RGBWW LEDs, medium angle optics and a clear glass lens.



4x Outputs for 16 BIT DMX controllers (8A fuses)
 320W, 12VDC Switch Mode Power Supply. **Output Voltage 12.0VDC**
 This is pre-set at the factory.
 Mains Input here has 4A fuse



eldoLED POWERdrive 45D vs. Luminaire Cable Core Identification :

Terminal	Core Colour	Function
Group 1 +	Red	500mA Red LED +ve
Group 1 -	Brown	Red LED -ve
Group 2 +	Green	500mA Green LED +ve
Group 2 -	Grey	Green LED -ve
Group 3 +	Blue	500mA Blue LED +ve
Group 3 -	Pink	Blue LED -ve
Group 4 +	Yellow	500mA White LED +ve
Group 4 -	White	White LED -ve
NTC +	N/C	N/C
NTC -	N/C	N/C

Load here is 12VDC typ, 19.5W max. @500mA per colour

Important Note: DMX Caveat (when operating in water)

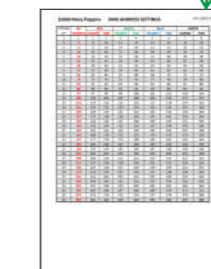
When programming the 16 BIT DMX for the scheme, the amount of each coarse colour channel can be set between 0 & 255 bits. So, on "Full Drive" the maximum possible number of coarse bits of DMX is 1020 (255 bits per coarse colour channel). However to prevent the LED units from overheating, the total number of coarse bits of DMX for a maximum of 4 colours should be no more than 765 bits.

Equipment Summary:

Product Image	Qty	Part No./Description	Electrical Details		
			Operating Voltage Range	Unit Current	Unit Wattage
	36	"DLX125/25-SS-RGBWW-MA-C-500-15M" 4-Colour Fountain Lights	11.5-13.0VDC (12VDC typ.)	500mA per colour	19.5W max.
	3	"CB26-320-12-12DMX16B-OP12" Control Box	230VAC	4A	320W max.



DLX125/25 Datasheet (ref: DLX125-25-CC-01)



DMX Address Settings Table

Please refer to this table for the DMX module set addresses.

12x Luminaire cables
 Each cable is wired into it's own 16 BIT DMX module inside the control box.



Previous Project

Drawing No. 25934					
Batch No:		10369			
Drawn By:		Kate Moss			
Approved By:		Mike Rawlinson			
Date:		17/02/2017			
Rev.	Change	Drawn	App'd.	Date	Print A3 Page 1 of 1