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DFS4000 LED LIGHTING SYSTEM

The new improved DFS4000 low voltage LED system from Glasson Electronics forms a versatile multicolour light source which has unequalled flexibility and ease of installation. The system works by combining power and data to facilitate individual control of up to 170 LED units from one power unit.

TECHNICAL OVERVIEW

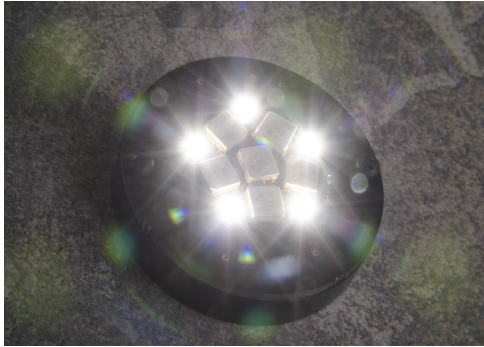
The system comprises the following components-

RM200 POWER SUPPLY



FEATURES

- Control of up to 170 DFS4000 LED units (100 Hi or 80 SH units).
- Protected from lamp wiring faults.
- DMX data input with standard RGB or RGBW 3 or 4 channels per LED unit.
- Optional DMX control byte to place power unit into low power standby.
- 110 / 230VAC input.
- Power consumption 250W max.
- Comprehensive self diagnostic system.
- Output voltage 24V for Std, 32V for hi and 48V SH.
- 100M max festoon cable length.
- Compact unit measuring just 246 x 200 x 75mm.
- Weight 2.4Kg
- Max operating Temperature 40C.



DFS4000 LED UNIT

DFS4000 LED units are constructed around a compact Aluminium chassis. Each unit integrates 4, 6 or 11 RGB LEDs with optional white LEDs for RGBW. The LEDs are combined with control electronics to form a compact high output light unit. LED units can be supplied with a clear, translucent or smoked cover.

Connecting LED units could not be easier.

Simply place the two conductor cable in the aluminium base then screw on the electronics assembly. The cable is secured and cable piercing pins make an electrical connection. The system is not polarity sensitive so the cable can connect either way around. For surface mounting, the cable can be hidden by looping through the supporting surface.

When all the units are connected their address is set using the hand programmer described below. Each LED unit is individually controllable on the system.

DFS4000 LED UNIT MAIN FEATURES

- Compact unit measuring just 43 x 20mm.
- Single colour, RGB or RGBW.
- Effective heat sinking for increased LED life.
- Easy to fit surface mounting.
- Cable can run along or be concealed behind the support surface.
- Small cable just 5.5 x 2.6mm
- Automatic cable termination.
- Unit address set using infrared hand programmer.
- Weight 22g.



DFS4000 can be supplied with a clear, translucent or smoked cover.

INTENSITY

The figures below represent typical performance figures for each DFS4000 LED unit standard and Hi SH versions. The Lumen figure is approximate.

	Red	Green	Blue
Standard (MCD)	1960	3360	1120
Hi (MCD)	2940	5040	1680
Super Hi (MCD)*	5390	9240	3080
Standard (Lumen)	5.8	9.7	2.97
Hi (Lumen)	8.3	14.6	4.4
Super Hi (Lumen)*	15.95	26.6	8.1

* Super high employs current sharing so full white will NOT be the sum of all colours light output.



DFS4000 can be surface wired or wiring can be concealed behind the support surface.

DFS4000 HAND PROGRAMMER

An easy to use commissioning tool which communicates to the LED units using a short range infra red link to program or read the LED unit address. Programming is very simple as the programmer auto increments after every programming operation.

