DLX125/25 (16 Watts)

∅125mm 4-Colour
Submersible LED Spotlight

- Ideal for water jet illumination (IP68)
- Robust corrosion-resistant construction
- Low voltage, high efficiency
- Long life - 30,000hrs typical
- High reliability, low maintenance
- Easy parallel wiring

Description

Compact, annular shaped, high power, LED spotlight designed to fit over a fountain nozzle for illuminating jets of water. Constructed from a 2 piece stainless steel housing. Each unit is fitted with 12 x Osram high power LEDs and secondary optics with a choice of output angles. This LED unit incorporates an on-board "Linear" regulation circuit. Terminated with flying lead via an IP68 cable gland, maintaining mechanical integrity and offering ingress protection. Optional cable protector is available. Adaptor sleeve for nozzle mounting is available - please contact njo for details. Each LED unit must be connected to a 15VDC Constant Voltage power supply or control box.

Characteristics

Optical

Number of LEDs = 12 x high power LEDs
Optics = Fitted with IP-rated Carlco optics
LED Data:

Colour	CCT/nm	Output	CRI
Red	630nm	125lm	-
Green	525nm	205lm	-
Blue	470nm	70lm	-
Cool White	6000K	285lm	70 typ.

Note: Lumen output has been adjusted in for 87% optic efficiency.

Important Note: DMX Caveat
*When programming the DMX512 for the scheme, the amount of each colour can be set between 0 & 255 bits. So, on "Full Drive" the maximum possible number of bits of DMX is 1020 (255 bits per colour). However to prevent the LED units from overheating, **the total number of bits of DMX for a maximum of 4 colours should be no more than 765 bits.***

Electrical

Operating Voltage Range = 13.5-15.5VDC (15VDC typ.)
Current = 1.07A
Configured in strings of 3 LEDs
Power Consumption = 16W max.
Above data is for P817 PCB
Luminaire Classification = Class III
(In accordance with BS EN 60598-1:2008)

Mechanical

Bezel O.D. = ∅125mm with ∅25mm inner hole
Height = 28.0mm
Lens = 8.0mm clear toughened glass
IP Rating = IP68
Product Weight = 1.6kg
Termination = 5-core rubberised cable, 0.5mm² CSA, 6.6mm O.D. (ref: W504)

Selection Guide

DLX125/25-	SS-	RGBCW-	MA-	C-	15-	5M
Product Series	**Housing**	**LED Colour**	**Output Angle**	**Lens**	**Voltage**	**Cable Length**
DLX125/25 = Submersible LED Luminaire	**SS** = 316 Stainless Steel Bezel and Body	**RGBCW** = Red, Green, Blue and Cool White LEDs	**MA** = Medium 30° *(Angles quoted are "inclusive angles")*	**C** = Clear	**15** = 15VDC	**1M** = 1 metre cable **5M** = 5 metre cable **10M** = 10 metre cable **20M** = 20 metre cable

Example DLX125/25-SS-RGBCW-MA-C-15-5M (DLX125/25, Red, Green, Blue & Cool White LEDs, Medium Output Angle, Clear Lens, 15VDC, 5 Metre Cable)
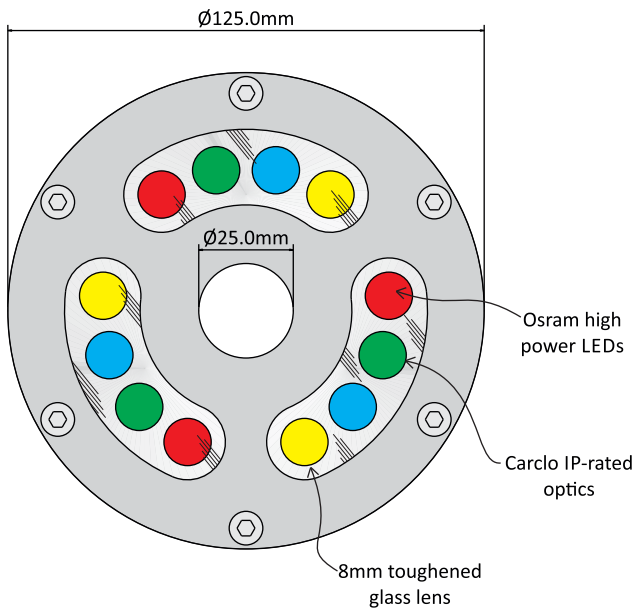
Made in the UK by njo Technology Ltd, 1-4 Fell View Trading Park, Shap Road, Kendal, Cumbria, LA9 6NZ t: +44 1539 730093 f: +44 1539 731084 e: sales@njoleds.co.uk
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www.njoleds.co.uk
Datasheet Ref: DLX125-25-02

DLX125/25   (16 Watts)

⌀125mm *4-Colour*
Submersible LED Spotlight

njo
creative leds

Mechanical Details

Top View

Ø125.0mm

Ø25.0mm

Osram high power LEDs

Carlo IP-rated optics

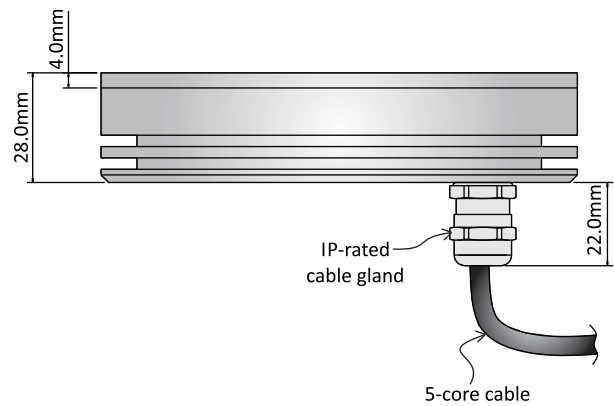8mm toughened glass lens

Side View

4.0mm

28.0mm

22.0mm

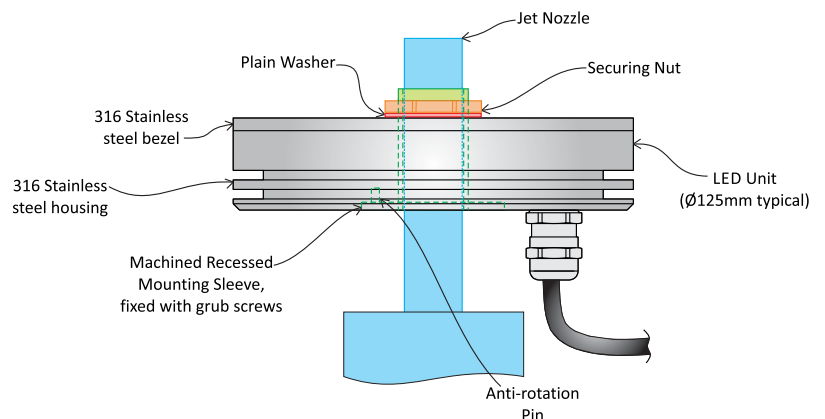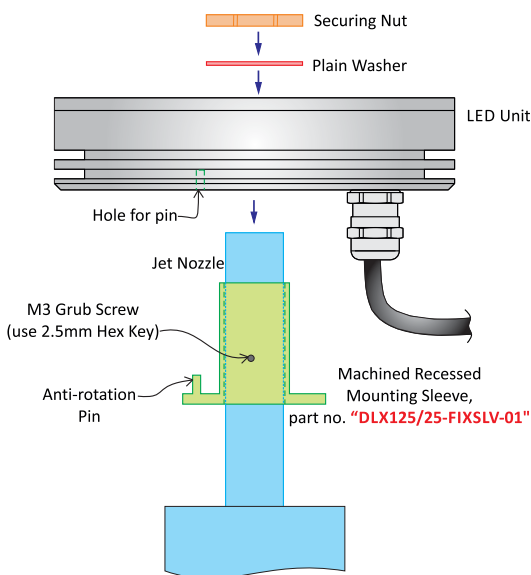IP-rated cable gland

5-core cable

Mounting Details

Typical mounting detail shown here:

i, Slide mounting sleeve onto the nozzle and tighten grub screws.
ii, Position LED fixture over mounting sleeve and rotate until the mounting sleeve pin engages with the hole in the base of the LED unit.
iii, Fit the plain washer and securing nut taking care to hold the rim of the LED, to prevent rotation - do not overtighten. *Releasable threadlock is an option for this stage.*
iv, Finally, tighten securing nut (with a 32mm spanner).

Securing Nut

Plain Washer

LED Unit

Hole for pin

Jet Nozzle

M3 Grub Screw
(use 2.5mm Hex Key)

Anti-rotation
Pin

Machined Recessed
Mounting Sleeve,
part no. **"DLX125/25-FIXSLV-01"**

Jet Nozzle

Plain Washer

Securing Nut

316 Stainless
steel bezel

316 Stainless
steel housing

Machined Recessed
Mounting Sleeve,
fixed with grub screws

LED Unit
(Ø125mm typical)

Anti-rotation
Pin

The appearance and specifications of the product may be modified for improvement without notice.