

Colour-Pipe CP300
Colour-Pipe CP600
Colour-Pipe CP1000



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Manual Revision V1.2

Overview

The Colour-Pipe is a linear luminaire based on coloured light emitting diodes. The product is housed in a 30mm diameter acrylic tube and is available in lengths of 332mm (CP300), 665mm (CP600) and 1000mm (CP1000).

Colour-Pipe contains an array of red, green, and blue LED's that can be controlled in order to produce a wide array of resultant colours.

Colour-Pipe is a passive device that requires an external controller or power supply.

Connection

Colour-Pipe is connected using the four wire tails. The tails are terminated in male spade connectors (fastons). These are compatible with the quick-fit T-Taps supplied in the CP-Install kit.

Wiring is as follows:

Cable Colour	Function	Voltage for Max Output
Red	Active Low Drive for Red	0 VDC
Green	Active Low Drive for Green	0 VDC
Blue	Active Low Drive for Blue	0 VDC
Black	Positive Voltage Common	24 VDC

Specification

	Colour-Pipe CP300	Colour-Pipe CP600	Colour-Pipe CP1000
I Illumination Lux @ 1m	90		
I Illumination Ft Candle @ 3ft	9		
IP Rating	IP20		
Power	6W	12W	18W
Voltage	24V		
Current	0.25A	0.50A	0.75A
Diameter	30mm		
Length	332	665	1000mm
Weight	0.13Kg	0.27Kg	0.4Kg
Control Connector	Faston		
Control	24V *		
LED's	RGB		
Operating Temperature Range	-10 to + 30 Celsius		
Operating Humidity Range	0 to 30% non condensing		
Number of Units powered by Power-Pipe.	36	24	12
Number of Units powered by LVD-12	36	24	12
Number of Units powered by LVD-24	72	48	24

**Narrow Wide
Specification**

	CPxxxN	CPxxxW
Beam Angle Parallel to pipe	23 degrees	100 degrees
Beam Angle Perpendicular to pipe	23 degrees	45 degrees
LED Lens Colour	Clear	RGB

Power and Control Options

The Colour-Pipe can be controlled in the following modes:

1. Static PSU: A 24V PSU is used to drive any combination of the three primary colours. This provides seven possible output colours.
2. Power-Pipe: The Power-Pipe product provides:
 - DMX512 control of all 16 million possible colours.
 - Stand-alone operation with numerous pre-programmed colour fades and effects.
 - The Power-Pipe can be used to power and control multiple Colour-Pipes, however all Colour-Pipes will produce the same output at any given time.
3. LVD-12 / LVD-24: The LVD (Low Voltage Dimmer) product provides:
 - DMX512 control of all 16 million possible colours.
 - Stand-alone operation with numerous pre-programmed colour fades and effects.
 - The Low Voltage Dimmer can be used to power and control multiple Colour-Pipes with 12 individual channels of control.

Installation

The Colour-Pipe must be installed such that the air vents are not obstructed and that air can flow freely around the fixture. When installed in an enclosure, forced air flow is advised.

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