PRELIMINARY

icolor flex sl

POWERED BY CHROMACORE



iColor Flex SL is a strand of 50 individually addressable LED nodes driven by the Color Kinetics Chromasic™ chip. Chromasic is a microchip that integrates power, communication, and control to enable the iColor Flex SL system. The ability to address each Chromasic node individually provides a level of fine-grained control and intricacy never before available for show authoring. The Chromasic chip and a tri-colored LED make up the node, which is mounted in a small plastic housing with interchangeable clear and translucent lenses. The nodes are available in 2- and 4-inch increments along a three-wire, 18 AWG cable. Custom spacing is available by special order. Each iColor Flex SL strand has a 20-foot leader from the power/data supply to the first node. Standard colors for iColor Flex SL is white and black, with brown and green available by special order.

iColor Flex SL receives power and data from a dedicated Color Kinetics indoor/outdoor rated power/data supply which will be available with Ethernet control, DMX512 control, or pre-programmed effects. Each power/data supply supports two 50-node strands and the compact size allows for discrete installations.

ICOLOR FLEX SL SPECIFICATIONS

COLOR RANGE	64 billion (32bit) additive RGB colors; continuously variable intensity
	output range
SOURCE	150 LEDs packaged in 50 Tri-color–Red, Green, and Blue–nodes
HOUSING	Rigid plastic housing, approximately 5/8" x 5/8" x 3/4"H
LISTINGS	Pending: C-UL US listed, CE certified, and PSE

COMMUNICATION SPECIFICATIONS

DATA INTERFACE	Color Kinetics data intertace system
CONTROL	Ethernet, DMX512 or stand-alone

ELECTRICAL SPECIFICATIONS (LIGHTS)

POWER REQUIREMENT	7.5VDC
POWER CONSUMPTION	30W Max. at full intensity (full RGB), per 50 node strand
POWER SUPPLY	Color Kinetics integrated power/data supply (TBA)

ELECTRICAL SPECIFICATIONS (POWER/DATA SUPPLY)

POWER INPUT	100VAC to 240VAC auto ranging (50Hz-60Hz)
	Power factor correction (PFC)
POWER OUTPUT	7.5VDC
HEAT DISSIPATION	25 percent of total power output
HOUSING	NEMA 4 indoor/outdoor rated enclosure
CONNECTORS	Data: RJ45 input/output connectors Power: 3-pin screw terminal

WET & DAMP

ENVIRONMENTAL SPECIFICATIONS

-4°F to 122°F (-20°C to 50°C) based on testing of specific product TEMPERATURE RANGE PROTECTION RATING IP66

SOURCE LIFE US

SOURCE LIFE Color Kinetics illumination products utilize high brightness LEDs as the illumination source. LED manufacturers predict LED life of up to 100,000 hours MTBF (mean time between failure), the standard used by conventional lamp manu-facturers to measure source life. However, like all basic light sources, LEDs also experience lumen depreciation over time. So while LEDs can emit light for an extremely long period of time, MTBF is not the only consideration in deter-mining useful life. LED lumen depreciation is affected by numerous environmental conditions such as ambient temper-ature, humidity and ventilation. Lumen depreciation is also affected by means of control, thermal management, cur-vert lumb, and a bast of ather elasticitation. rent levels, and a host of other electrical design considerations.

Color Kinetics systems are experily engineered to optimize LED life when used under normal operating conditions [ambient temperature: -4°F to 104°F (-20°C to 40°C), humidity: 0-95% non-condensing humidity, adequate ventila-tion and air volume] and when operated using typical color-changing effects. Long-term operation outside of these ranges or conditions, or at the upper limits of these ranges or conditions, may subject the product to further degrada-tion of the LED source life, or in extreme cases, failure of internal components. Source life information is based on LED mean terms are the product to the term of the term of the term operation of the section of the LED source life of the term operation of the terms. LED manufacturers' data, as well as other third party testing.

U.S. AND FOREIGN PATENTS AND PATENTS PENDING

Color Kinetics Incorporated grants the purchaser of its lighting products and controllers a personal and non-transfer-able license to use Chromacore[®], its patented technology for networkable control of LED-based color-changing light-ing fixtures for illumination, display and design. This license is granted only by Color Kinetics Incorporated, and may not be transferred except by the grantor. The design, duplication, manufacture, or sale of other products using net-workable control of LED-based color-changing lighting may be prohibited and is not licensed hereunder. Other particular bandling Specifications subject to change without notice. patents pending.

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iColor Flex SL ITEM# 101-000017-00 (2" White) 101-000018-00 (4" White) 101-00020-00 (2" Black) 101-000021-00 (4" Black)

FOR USE UNDER U.S. PATENTS 6,016,038, 6,150,774 AND 6,340,868 EUROPEAN PATENT 1,016,062 OTHER PATENTS PENDING

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PRELIMINARY

iCOLOR FLEX SL





COLOR CONSISTENCY

There are inherent variations in the fabrication processes of all semiconductor materials. For LEDs, this variance results in differences in the color and intensity of light output as well as electrical characteristics. Due to these differences, LED manufacturers sort production into "bins," but insuring the availability of a single bin is very difficult. To minimize this issue and achieve optimal color consistency in its products, Color Kinetics has developed and uses a proprietary technology called Optibin™. Optibin is an advanced production binning optimization process that minimizes the effects of LED variance for the best possible output uniformity in the final product. Color Kinetics Optibin technology gives the most consistent control of color and intensity from product to product.

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