



iCOLOR MODULE FX

POWERED BY CHROMACORE®



Color Kinetics® iColor® Module FX (6:9 and 6:36) is a new lighting medium for wide-ranging designs. iColor Module FX provides lighting professionals with a 6-inch (15.2 cm) square modular panel with singularly controllable points of light which are ideal for interior surface designs, back lighting, and three-dimensional objects. The indoor rated fixture is encased in a clear polycarbonate, protective housing which can be installed in a tiled array mounted side-to-side or spaced up to three inches apart, with board-to-board connections.

iColor Module FX incorporates 9 or 36 individually addressable, tri-color LED nodes on a printed circuit board driven by Color Kinetics Chromasic™ technology. Chromasic is a microchip that integrates power, communication, and control to individual nodes, across one unit or a multi-unit installation, making iColor Module FX extraordinarily flexible. This fine-grained level of control makes possible the creation of scrolling images, animation, and morphing shapes and patterns. Nodes on iColor Module FX 6:9 are spaced 2 inches on center vertically and horizontally and the nodes on iColor Module FX 6:36 are spaced 1 inch on center vertically and horizontally.

Four mounting through-holes and board-to-board snap-in connectors, minimizes installation time and tools, whether the units are positioned apart or conjoined to form grids and custom shapes. Applications range from simple, color changing effects to intricate designs and animations.

iColor Module FX receives power and data from Color Kinetics PDS-60ca 7.5V indoor/outdoor rated power/data supply which is available with Ethernet or DMX512 control. Each power/data supply supports up to 16, 9-node and 4, 36-node light panels and the compact size allows for discrete installations. An iColor Module FX installation uses a 30-foot leader from the power/data supply to the panel and 12-inch jumper cables for connections between units.

iColor Module FX is compatible with most Color Kinetics controllers and third-party DMX controllers. To realize its full potential for sophisticated effects, iColor Module FX is optimally controlled by Light System Manager—Color Kinetics Ethernet-based control system.

ICOLOR MODULE FX SPECIFICATIONS

COLOR RANGE	64 billion (24-bit) additive RGB colors; continuously variable intensity
SOURCE	6:9 - 9 LEDs packaged in tri-color-Red, Green, and Blue-nodes 6:36 - 36 LEDs packaged in tri-color-Red, Green, and Blue-nodes
HOUSING	Clear Polycarbonate, 6"(15 cm) x 6"(15 cm) x 0.75"(2 cm)
LISTINGS	C-UL US listed and CE certified

COMMUNICATION SPECIFICATIONS

DATA INTERFACE	Color Kinetics data interface system
CONTROL	Ethernet or DMX512

ELECTRICAL SPECIFICATIONS (LIGHTS)

POWER REQUIREMENT	7.5VDC
POWER CONSUMPTION	6:9 - 4W, 6:36 - 12W Max. at full intensity (full RGB)
POWER SUPPLY	Color Kinetics PDS-60ca 7.5V (DMX 109-000015-01 and Ethernet 109-000015-02)

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: 4-pin connector

ENVIRONMENTAL SPECIFICATIONS

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

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 manufacturers 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 determining useful life. LED lumen depreciation is affected by numerous environmental conditions such as ambient temperature, humidity and ventilation. Lumen depreciation is also affected by means of control, thermal management, current levels, and a host of other electrical design considerations.

Color Kinetics systems are expertly 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 ventilation 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 degradation of the LED source life, or in extreme cases, failure of internal components. Source life information is based on LED manufacturers' data, as well as other third party testing.

U.S. AND FOREIGN PATENTS AND PATENTS PENDING



iColor Module FX ITEM# 101-000045-00 (6:9)
ITEM# 101-000045-01 (6:36)

U.S. PATENTS 6,016,038, 6,150,774, 6,340,868, AND 6,788,011
FOREIGN PATENTS: EUROPE 1,016,062, AUSTRALIA 757000,
HONG KONG 1025416, AND CANADA 2,302,227
OTHER PATENTS PENDING

©2004 Color Kinetics Incorporated. All rights reserved.
Chromacore, Color Kinetics, the Color Kinetics logo, ColorBlast,
ColorBlaze, ColorBurst, ColorPlay, ColorScape, iColor, iColor Cove,
iPlayer, QuickPlay, and Smartjuice are registered trademarks, and
Chromasic, ColorCast, Optibin, and Powercore are trademarks of
Color Kinetics Incorporated.

All other brand or product names are trademarks
or registered trademarks of their respective owners.

BR0134 Rev 01

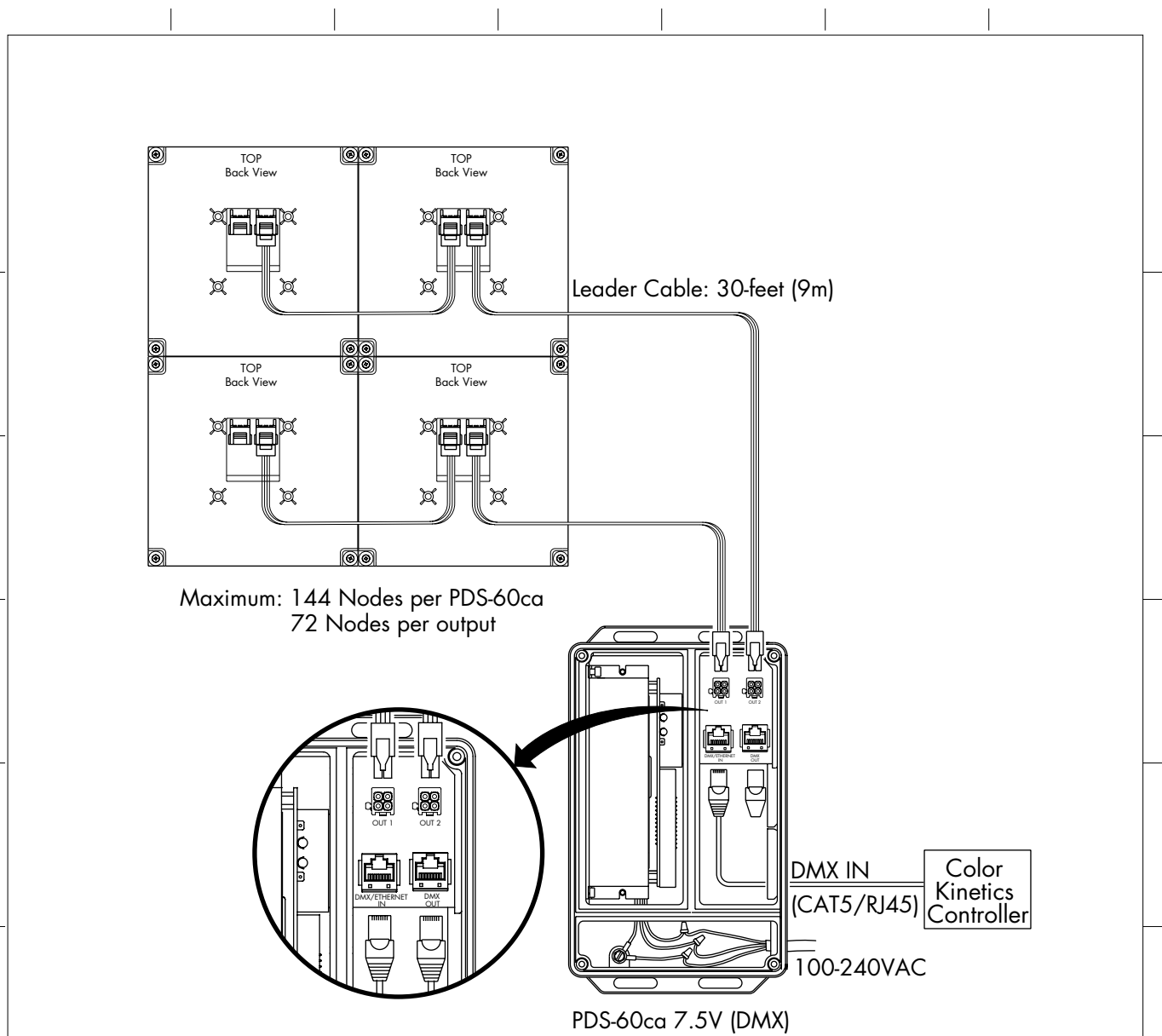
Specifications subject to change without notice.

COLOR KINETICS INCORPORATED • 10 MILK STREET, SUITE 1100 • BOSTON, MA 02108 • USA

TEL 888 FULL RGB • TEL 617 423 9999 • FAX 617 423 9998 • INFO@COLORKINETICS.COM • WWW.COLORKINETICS.COM

iCOLOR MODULE FX

FUNCTIONAL FLOW DIAGRAMS

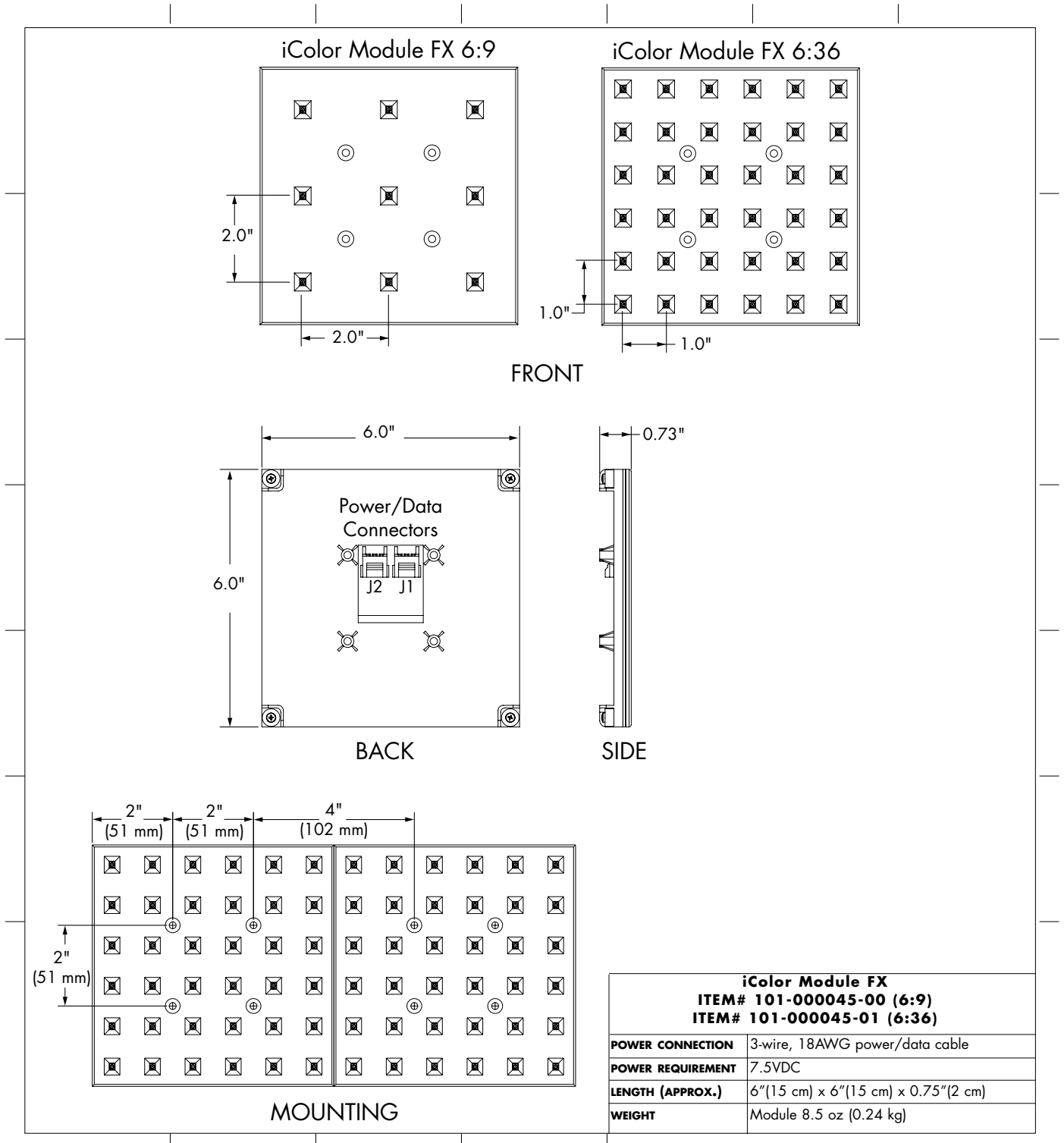


For complete installation instructions and safety precautions, refer to the iColor Module FX User Guide and wiring diagrams located at www.colorkinetics.com/support.

Additional Items	
POWER/DATA SUPPLY	PDS-60ca 7.5V (109-000015-01/02)
CONTROLLER	Light System Manager (103-000015-00) or iPlayer 2 (103-000007-00/01)
CABLES	Leader (108-000018-00) Jumper (108-000019-00)

iCOLOR MODULE FX

PHYSICAL DIMENSIONS



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.

