

INSTALLATION GUIDE



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

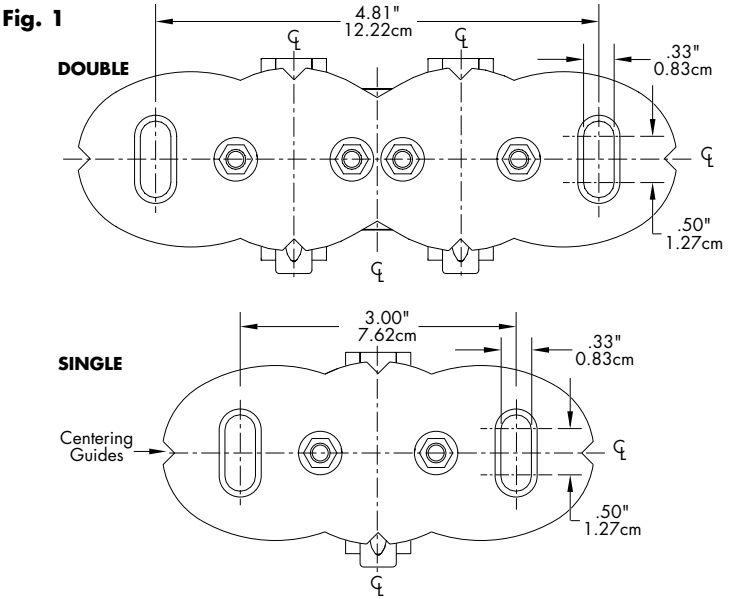
PUB-000080-00 Rev 00

Specifications subject to change without notice.



WARNING: Use no less than the minimum number of recommended mounting feet per fixture. Using fewer can cause fixture mounting to fail resulting in death or serious injury.

Fig. 1



WARNING: Adhere to all torque specifications during installation. Failure to do so can result in mounting failure and result in death or serious injury.

INSTALLATION: There are two methods of attaching the fixture bracket to the installation surface – bolt and stud.

BOLT METHOD

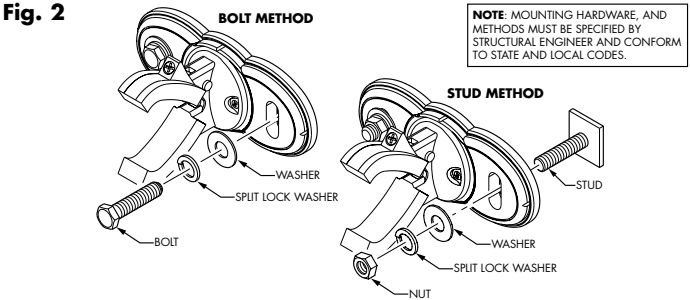
- Attach the fixture brackets to the installation surface using two 5/16-inch thread bolts, flat washers, and split lock washers. Tighten to 50 lb_f-in (8.75 N-mm) torque using a calibrated wrench. See Fig. 2 for details

STUD METHOD

- Attach the fixture brackets to the pre-studded installation surface using two 5/16-inch thread bolts, flat washers, and split lock washers. Tighten to 50 lb_f-in (8.75 N-mm) torque using a calibrated wrench. See Fig. 2 for details.

NOTE: The above mounting details are based on general mounting methods. The exact method of installing the fixture brackets, and hardware used, varies depending on the mounting surface material and local codes. It is the responsibility of the owner/Structural Engineer to determine the best mounting method for the fixture brackets.

Fig. 2

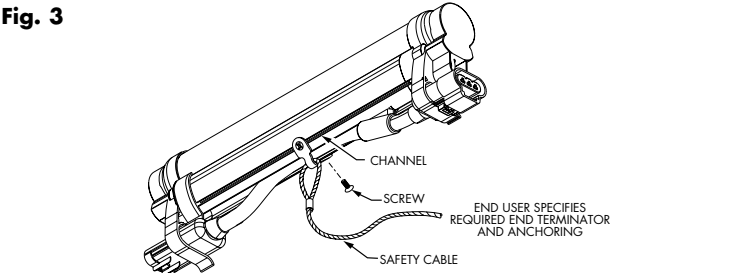


ATTACHING SAFETY CABLE

Each fixture comes with a safety cable bracket and two thread-forming screws. When dictated by local or state code, or by a Structural Engineer, attach a safety cable from the fixture to the mounting surface.

1. Loop the safety cable over the cable bracket.
2. Using the provided thread-forming screws, attach the cable bracket to the bottom of the fixture housing.
Center the bracket on the fixture housing and insert the screws into the channels. See Fig. 3 for details.
3. Tighten screws to 13 lb_f-in (2.28 N-mm) torque using a calibrated wrench.

Fig. 3



The safety cables used in the installation should meet the following minimal requirements:

MATERIAL: 316 Stainless Steel
SIZE: 5/64-inch (0.78-inch nominal diameter) or larger, minimum break load must be greater than 650 pounds. Maximum diameter is 1/4-inch (0.25-inch diameter).

CONSTRUCTION: 7 x 7 (49 wires) performed stranded
END TERMINATIONS: Determined by installer and/or owner
MOUNTING METHOD: Determined by installer or owner

For the proper mounting method of safety cable to installation surface, refer to a Structural Engineer or applicable standards for your specific application.

ATTACHING FIXTURES

After power/data is run, fixture brackets mounted, and the safety cables attached to fixtures, you are ready to attach the iColor Accent fixtures.

Refer to your layout drawing and attach fixtures to the mounting brackets beginning with the first fixture in a power/data supply series. Make power connections as you go.

1. Position the first fixture in a series into the mounting bracket with the male connector matched to the female power/data supply lead connector. Beginning at the male connector end of the fixture, serial numbers increment low to high.
2. Tighten clamp screw loosely. Clamps should be tight enough to hold fixture in place, yet loose enough to allow connection and alignment movement.
3. Make the power/data connection.
4. Tighten the clamp screw to 15 lb_f-in (2.63 N-mm) torque using a calibrated wrench.
5. Position the next fixture in the series, matching the male connector end to the female connector of the previously mounted fixture.
6. Tighten loosely as in Step 2.
7. Connect power/data to the previously attached fixture, then tighten clamp screw to 15 lb_f-in (2.63 N-mm) torque using a calibrated wrench.
8. Repeat Steps 5 and 7 until all fixtures for the power/data supply are attached and connected.
9. Insert the terminator into the last fixture of each power/data supply series.

CAUTION: Ensure terminator is inserted into last fixture of each series. Failure to do so can result in product failure and void the warranty.

10. Repeat Steps 1 through 8 for each power/data supply series in the installation. Refer to Fig. 5.

Fig. 4

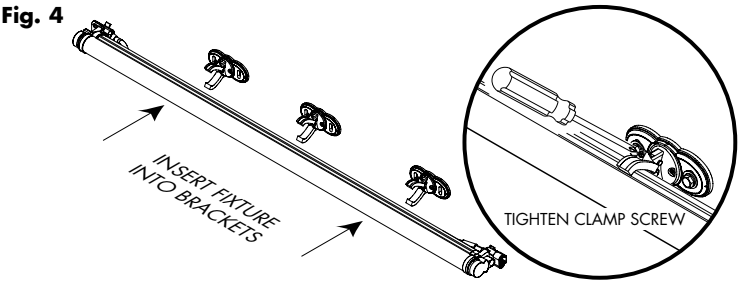
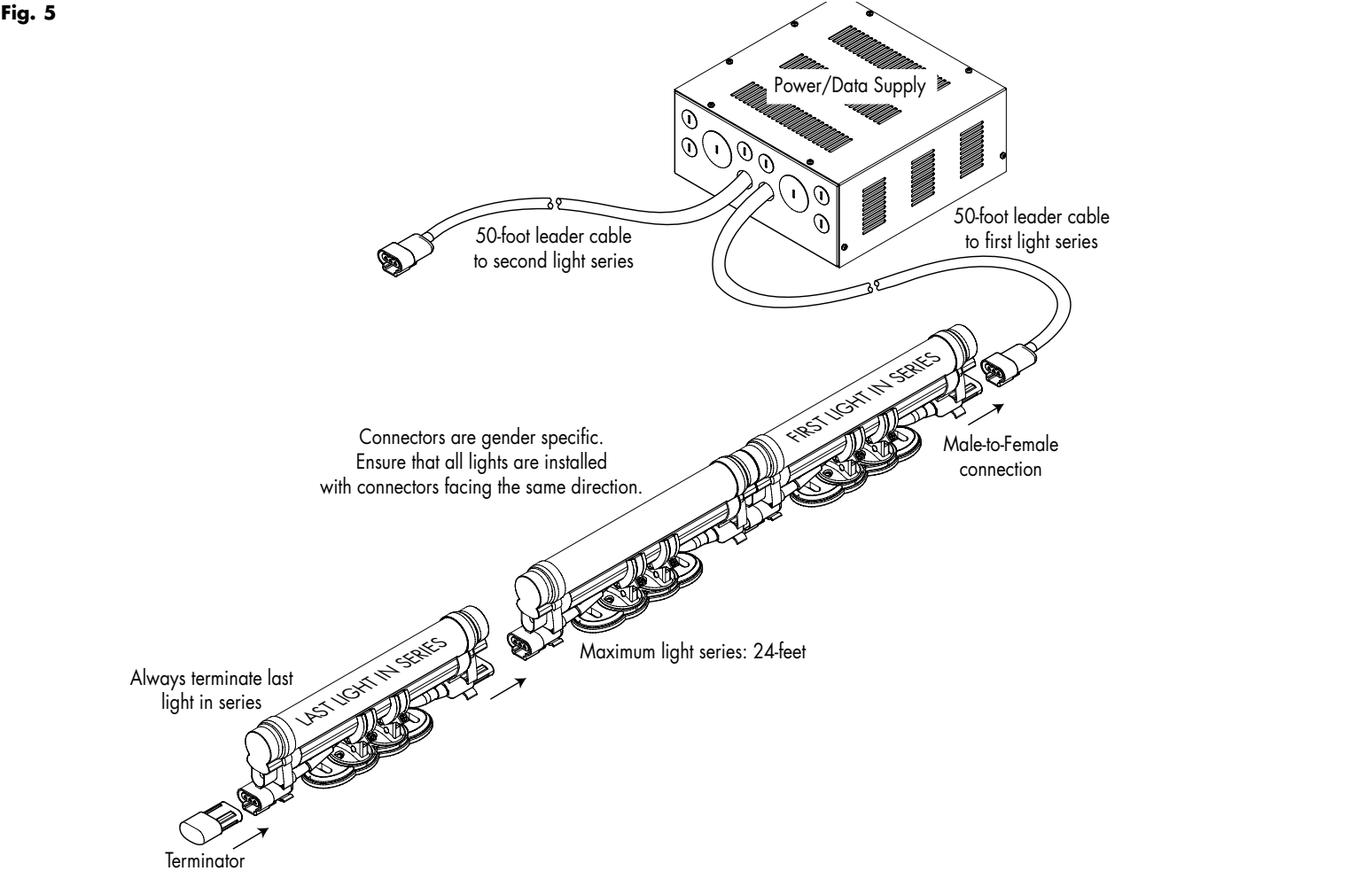


Fig. 5



iCOLOR ACCENT SPECIFICATIONS

COLOR RANGE	16.7 million (24bit) additive RGB colors; continuously variable intensity output range
SOURCE	High intensity, surface mount, colored LEDs
VIEW ANGLE	+250°
HOUSING	Sealed polycarbonate, UV stabilized, with extruded aluminum support
CONNECTORS	Over-molded, integral male/female connectors
LISTINGS	UL, CE, IP66

COMMUNICATION SPECIFICATIONS

DATA INTERFACE Color Kinetics full line of controller products

ELECTRICAL SPECIFICATIONS

REQUIREMENT	24VDC
CONSUMPTION	Maximum: 7.2W (1-foot), 28.8W (4-foot), 57.6W (8-foot)
POWER SUPPLY	PDS-500e intelligent power/data supply (ITEM# 109-000009-00) for 100V to 240V input PDS-500e-277 intelligent power/data supply (ITEM# 109-000009-01) for 277V input

ENVIRONMENTAL SPECIFICATIONS

TEMPERATURE RANGE	- 20°F to 122°F (- 29°C to 50°C)
PROTECTION RATING	IP66 (NEMA 4X) protected against dust and low pressure jets of water from all directions.

Temperature Monitoring

For protection from extreme temperatures, the iColor Accent has been designed with a temperature monitoring feature. If operating temperatures rise to an unsafe level, a compensation circuit is triggered and the iColor Accent operation is interrupted causing the lights to turn dull red. After 30 minutes the lights will auto-cycle and return to full intensity.

To prevent additional power shut-downs, determine the cause of the overheating and correct the problem.

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 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

Color Kinetics Incorporated grants the purchaser of its lighting products and controllers a personal and non-transferable license to use Chromacore®, its patented technology for networkable control of LED-based color changing lighting 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 networkable control of LED-based color changing lighting may be prohibited and is not licensed hereunder. Other patents pending.