



sMOPS-150

INSTALLATION GUIDE

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sMOPS-150
 ITEM# 109-000007-00

FOR USE UNDER U.S. PATENTS 6,016,038 AND 6,150,774
 OTHER PATENTS PENDING

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PUB-000046-00 Rev 00

INSTALLING sMOPS-150

Color Kinetics® sMOPS-150 is specially designed to supply power and data to C-Splash lighting fixtures.

This fixture should be installed by a qualified electrician in accordance with NEC and relevant local codes for power supplies with Class 2 outputs.

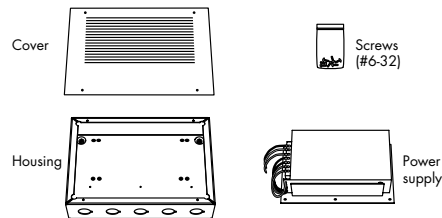
WARNING: sMOPS-150 is rated for installation in environments where the temperature does not exceed 104°F (40°C). To ensure product performance, a volume of 8 cubic feet of air is required around the unit. Do not obstruct the vent holes on the unit's cover.

This power supply is not suited for outdoor locations and must be shielded from water spray.

Unpacking

- Lift the power supply out of the housing, and remove the packing material from the cover and power supply. (See Fig. 1.)

Fig. 1



Mounting the sMOPS Housing

- When selecting the location to mount the housing, keep in mind that the maximum run from sMOPS-150 to each C-Splash fixture is 60 feet.
- Punch out the appropriate number of preformed 3/4" conduit holes. At least 3 holes are recommended to separate the following: incoming power (line voltage), incoming data, and outgoing data and power (DC voltage).
- Mount the housing to the wall with four #6 dry wall screws. Mounting holes are located at the four corners of the housing.

Connecting C-Splash Fixtures to the Power Supply

WARNING: Insure that the power supply is off before connecting or disconnecting fixtures.

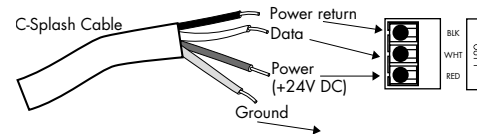
There are four main output terminals on the power supply, labeled OUT 1, OUT 2, OUT 3, and OUT 4.

The four wires in the C-Splash cable are color coded as follows:

| | |
|-------|-----------------|
| BLACK | Power return |
| WHITE | Data |
| RED | Power (+24V DC) |
| GREEN | Ground |

- Punch out a preformed 3/4" conduit hole at the base of the housing for each C-Splash fixture. Insert each fixture's cable through the appropriate hole using a cable connector.
- Connect the black, white and red wires for each fixture to an output terminal as shown in Fig. 2.

Fig. 2



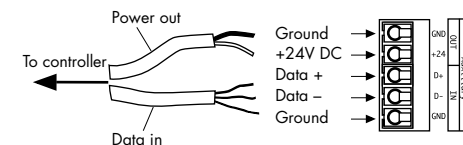
- Connect the ground wire from each C-Splash cable to the ground wire attached to the housing. (See Fig. 8.)

Connecting Data to the Power Supply

Using the Auxiliary Terminal

Connect the controller to the output terminal labeled AUXILIARY. (See Fig 3.) This terminal supplies power to the controller and also receives data, which it sends to each C-Splash fixture.

Fig. 3.



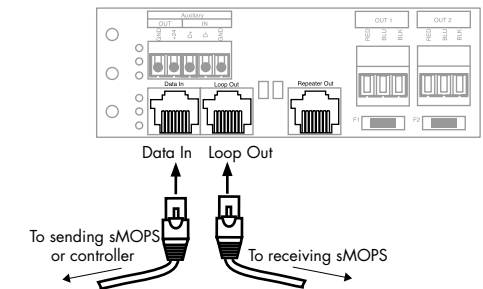
WARNING: The AUXILIARY terminal is designed for use only with Color Kinetics controllers such as Synchronizer, Multi Synchronizer, and iPlayer®. Do not use the AUXILIARY terminal to power lights.

Using the RJ45 DATA IN Port

Alternatively, you can connect the controller to the DATA IN RJ45 port. In this case, the controller must be powered by another source.

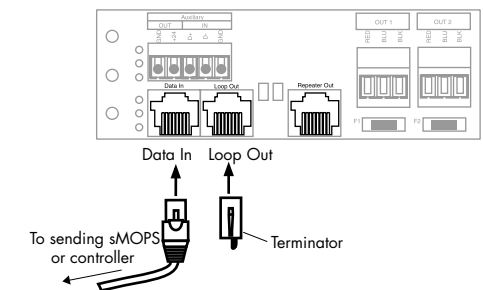
- To send data to another sMOPS-150 or other Color Kinetics product with direct DMX input, connect an RJ45 cable between the LOOP OUT port of the sending unit and the DATA IN port of the receiving unit. (See Fig. 4.)

Fig. 4



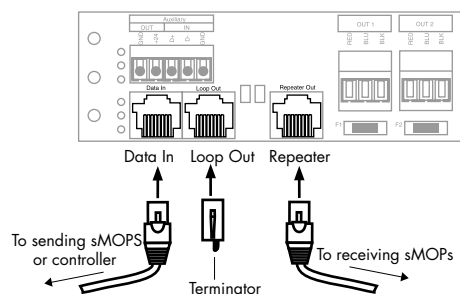
- Make sure to install a terminator in the LOOP OUT port of the last unit in the chain. (See Fig. 5.) Single units should also be terminated. (Data terminators are available from Color Kinetics.)

Fig. 5



- The REPEATER port boosts the data signal for longer chains. Use the REPEATER port instead of LOOP OUT on every 32nd sMOPS unit in a chain, or when the cable run between two power supplies is more than 400 feet. Make sure a terminator is installed in the LOOP OUT port if the REPEATER port is used. (See Fig. 6.)

Fig. 6

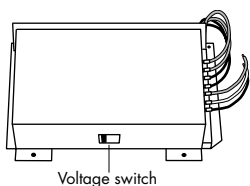


Connecting Power to the Power Supply

NOTE: It is the end user's responsibility to use the proper conductors to permanently mount the incoming facility power, and to provide means for disconnecting the system.

- Set the voltage switch to 115 or 230V AC, depending on your source voltage. (See Fig. 7.)

Fig. 7

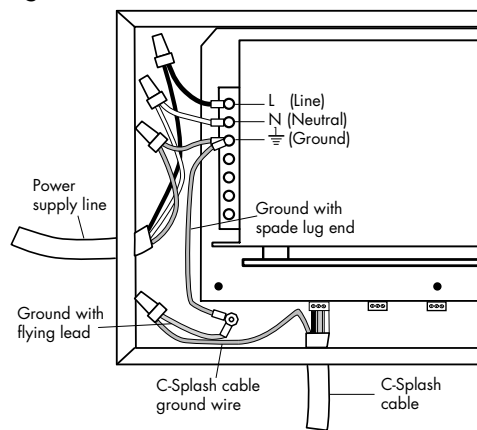


- Pass the power supply line through one of the 3/4" holes in the metal housing. (See Fig. 8.) Attach the appropriate conduit/cable connector. Connect power lines to the wires labeled:

| | |
|---|---------|
| L | Line |
| N | Neutral |
| ⏏ | Ground |

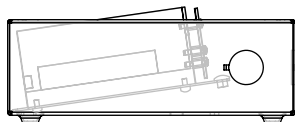
- Connect the housing ground wire with the spade lug end to the ground terminal of the power supply as shown in Fig. 8.

Fig. 8



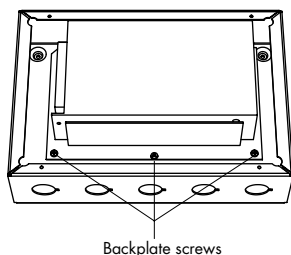
- Mount the power supply unit inside the housing by lining up the two tabs on the power supply backplate with the two slits on the inside of the housing. You may need to insert the unit at a slight angle as shown in Fig. 9 to slide the tabs in easily.

Fig. 9



Once the tabs are in place, attach the backplate to the housing using three of the #6-32 screws. (See Fig. 10). A power screwdriver is recommended for this step.

Fig. 10



- Place the cover on the housing, making sure that the vent holes are located above the power supply for proper ventilation, and secure the cover using the remaining four #6-32 screws. A power screwdriver is recommended for this step.

sMOPS-150 Specifications

Power Output 6A @ 24V DC (150W)

Power Input 115/230V AC (user-selectable)

Housing NEMA-style enclosure for installation with power supply

Dimensions 10.5" X 7.5" X 2.7"

Connectors Screw terminal or RJ45 data input and output connectors; screw terminal power output connectors

Listings UL listed

Data Interface DMX512 (RS485) compatible

ONE YEAR LIMITED HARDWARE WARRANTY

Color Kinetics Incorporated warrants its products, if properly used and installed, will be free from defects in materials and workmanship and will substantially conform to Color Kinetics' publicly available specifications for a period of one (1) year after the date the product was purchased by the end user.

If the product fails during the warranty period, purchaser's remedy under this limited warranty shall be at Color Kinetics sole election:

- Repair the product by means of hardware and/or software or
- Replace the product with another product or
- If Color Kinetics is unable to repair or replace the particular product, refund the then current value of the product.

This limited warranty does not cover damages due to external causes, including, but not limited to, accident, problems with electrical power, usage not in accordance with product instructions, misuse, neglect, modification, repair, improper installation, or improper testing. Color Kinetics is not responsible for indirect, incidental, or consequential damages resulting from any breach of warranty or under any other legal theory including, but not limited to, lost profits, downtime, goodwill, damage to or replacement of equipment and property.

To obtain warranty service, you may contact your distributor in accordance with its instructions, or you may contact Color Kinetics. To request warranty service you should call Color Kinetics during the warranty period. Proof of purchase or registration is required. When calling within warranty, please provide:

- 1) Your name, shipping address, and telephone number
- 2) A description of the model and serial number
- 3) An explanation of the problem

A Return Authorization (RA) number and ship-to address will be provided for returning the product.

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Color Kinetics products are manufactured in the USA, Ireland, and China.