

Digital Lighting Systems, Inc.

MCF120 2, 3 or 4 channels 4 x 400 Watts ; 120 VAC

Fader/ Chaser, multi patterns Lighting Animation sequencer



USER'S MANUAL

www.digitallighting.com





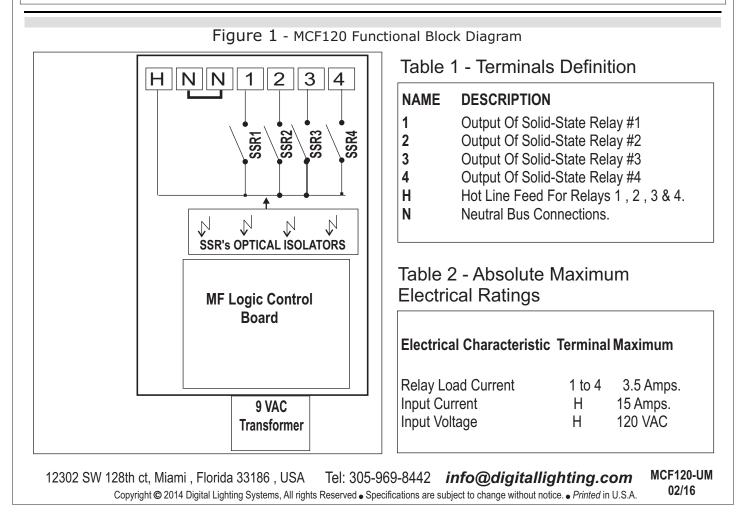
User's Manual - Page 1 16 Pattern Fader / Chaser

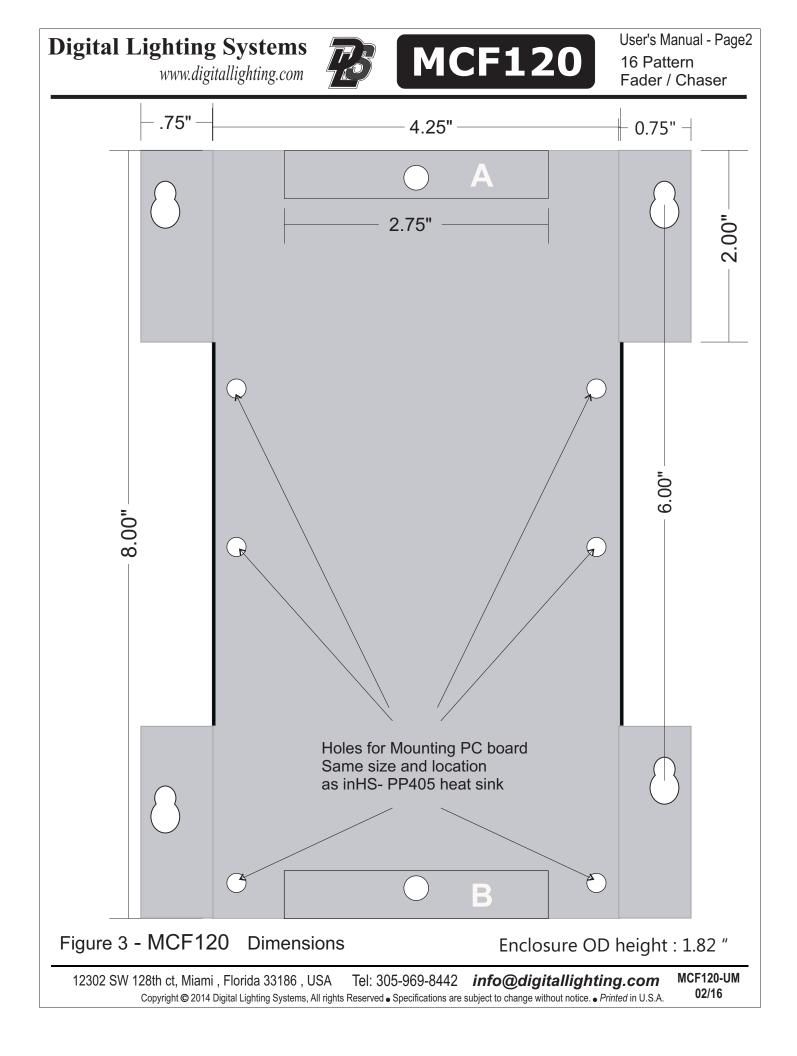
General Description

The **MCF120** is a 4,3,or2 channel VAC lighting controller (Cross-Fader/Lighting animation) capable of producing slow level changes(Color Mixing) as well as Quick ON/ OFF (Animation)

A functional block diagram of the **MCF120** is shown in Figure 1. **MCF120** contains the equivalent of four solid-state relays (**SSR**) 4 dimmers, with one power line feed. Each dimmer is rated at a maximum output current of 2.5 Amperes. The **SSR** dimmers are controlled by low-voltage DC signals from the logic circuit on the board. These signals areelectrically-isolated by Optical couplers from all line voltage elements. The **MCF120** logic board contains a powerful microprocessor programmed to generate 16 user-selectable light sequences or patterns at an adjustable rate (the **MCF120** is also available with a "SPELLER" pattern or custom patterns upon request). A rotary selector on is used to select the pattern and a second one is used to set the rate or speed. Patterns and speed can be monitored by four LED's that represent the outputs of the **MCF120**. The **MCF120** acquires Logic power from built in **9 VAC/ 500 mA.** transformer.

Please contact the factory for additional information 305-969-8442 or email **info@digitallighting.com**





Digital Lighting Systems

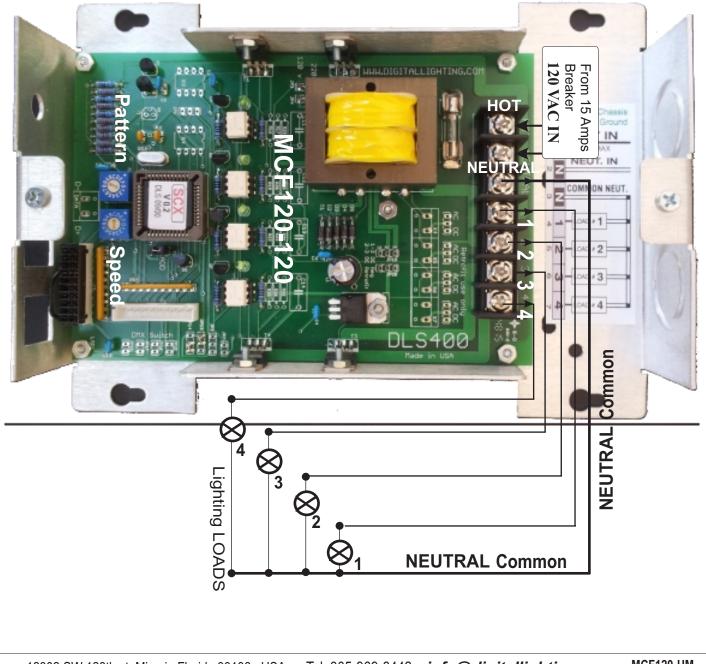
www.digitallighting.com

MCF120 User's Manual - Page 3 16 Pattern Fader / Chaser

MCF120 General Wiring Instructions

Wiring Notes

- DO NOT EXCEED 400 W (3.5 Amps.) per circuit output @ 120VAC.
- I MCF120 Fader packs may be fed by one 20 A (maximum) branch circuit and may have up to four separately dimmed loads.
- Loads connected to outputs must be dimmable.
- CAUTION: DO NOT attempt to parallel outputs to increase capacity.
- $\ensuremath{\,^\circ}$ Installations must conform to local and/or NEC code requirements.
- $\hfill \mbox{ Each load must have its own Neutral wire for full load operation.}$
- $\hfill \mbox{ In All line voltage wires must have copper conductors of adequate Gauge with 90° C wire insulation.}$
- D POWER EACH LOAD DIRECTLY BEFORE CONNECTING TO THE **MCF120**, TO ENSURE PROPER WIRING.



www.digitallighting.com



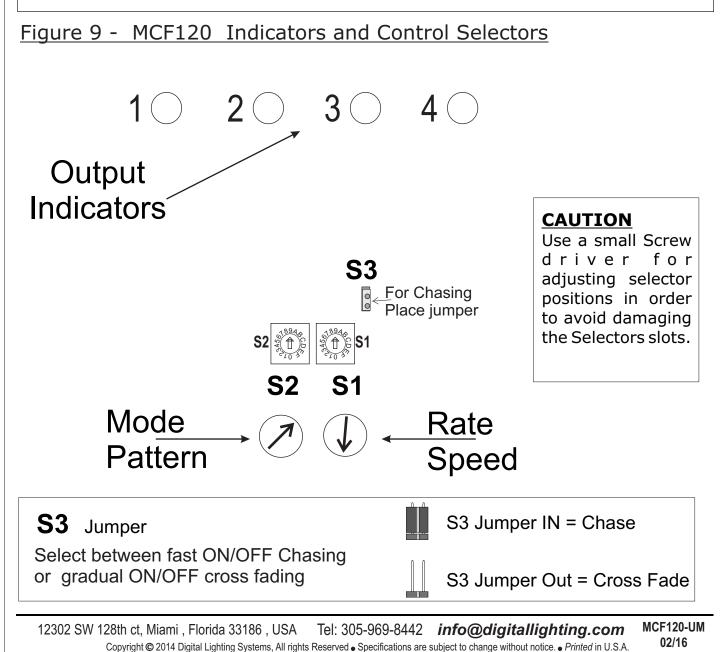


Controls

The controls consist of two rotary 16-position (**0-9** and **A-F**) selectors. **S2** (**PATTERN**) is used for selecting the desired Fade pattern. Positions **0** will scroll threw the patterns automatically to provide an ever changing light show. The **MCF120** outputs can be turned to static **ON** by selecting **F**. When **0** is selected, the **MCF120** goes into an automatic pattern change mode. All other positions cause the **MCF120** to play a single pattern indefinitely. **S1** is used to select one of 16 individual Fade rates (**Rate**). Minimum speed is achieved by selecting position 0. Speed doubles with each subsequent selector position.

Indicators

LED indicators 1 to 4 indicate the status (On-Dimmed-Off) of their corresponding outputs.



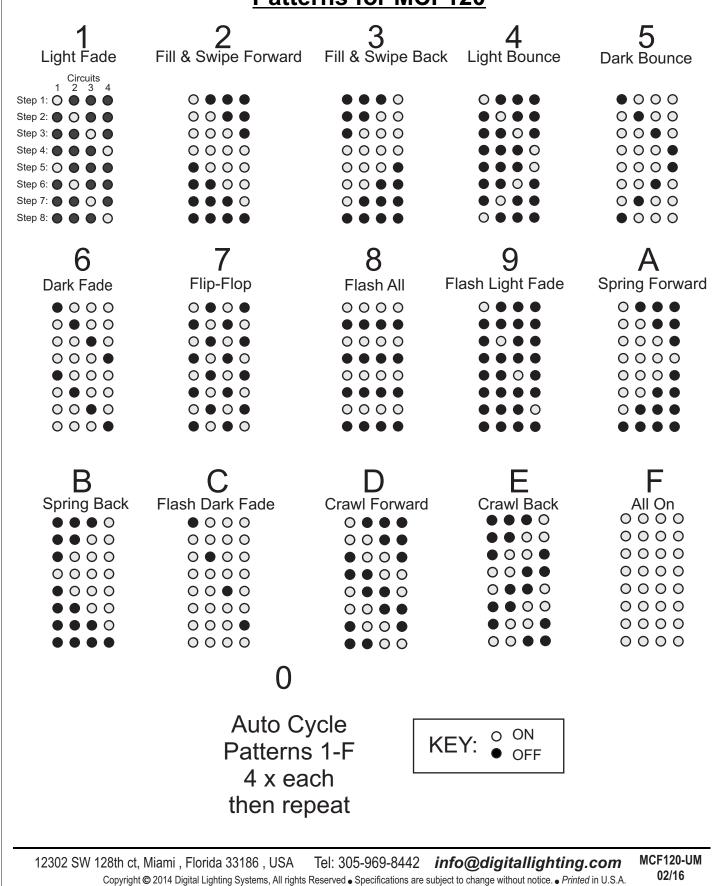
Digital Lighting Systems

www.digitallighting.com

User's Manual - Page 5 16 Pattern Fader / Chaser



MCF120



Digital Lighting Systems

www.digitallighting.com



- - -



User's Manual - Page 6 16 Pattern Fader / Chaser

LIMITED WARRANTY

Digital Lighting Systems, warrants to the user that its products have been carefully manufactured and inspected and are warranted to be free from defects of workmanship and materials when used as intended. Any abuse or misuse contrary to normal operation shall void this warranty.

Digital Lighting Systems' obligation under this warranty shall be limited to replacement or repair of any units that within **two years** from date of invoice from **Digital Lighting Systems**, prove defective; and **Digital Lighting Systems** shall not be liable for any other damages, whether direct or consequential. **The implied warranties of merchantability and fitness for a particular purpose are limited to the duration of the expressed warranty**. Some states do not allow the exclusion of the limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, you may also have other legal rights which vary from state to state.

Defective merchandise may be returned to **Digital Lighting Systems**, shipping prepaid, after prior notification has been given and approval obtained for the return. To obtain prior approval for the return of the defective items, contact your local Digital Lighting Systems distributor, representative, or:

Digital Lighting Systems, Inc.

Attn: Customer Service Department 12302 SW 128th ct, # 105 Miami, FL 33186 (305) 969-8442



Upon request, replacement unit(s) will be shipped as soon as available. Unless immediate shipment of replacement merchandise is requested, **Digital Lighting Systems** will not ship replacement merchandise until defective merchandise is received, inspected, and determined to be defective.

No labor charges in connection with warranty problems will be reimbursed by Digital Lighting Systems without prior written approval from the factory.

Digital Lighting Systems distributors and representatives have no authority to change this warranty without written permission.

Digital Lighting Systems reserves the right to determine the best method of correcting warranty problems.

Printed in U.S.A. February 2016