## Digital Lighting Systems, Inc. T5 <br> Four Channel Dimmer and Switch module

Input: 5 Amps @ 7-24 VDC
Outputs:4 outputs 5 Amps Max. Each, total 4 outputs 5 Amps Maximum.


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## General Description

The CF400 is a user selectable three or four-channel VDC lighting controller (CrossFader /chaser / Lighting animation) capable of producing slow level changes( Color Mixing ) as well as Quick ON/ OFF ( Animation)

A functional block diagram of the CF400 is shown in Figure 1. CF400 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 5 Amperes. ( Total current on all 4 loads not to exceed 8 Amps.). The SSR dimmers are controlled by low-voltage DC signals from the logic circuit on the board. These signals are electrically isolated by Optical couplers from all output elements. The CF400 logic board contains a microprocessor programmed to generate 15 user-selectable light sequences or patterns at an adjustable rate (the CF400 is also available with a "SPELLER" pattern or custom patterns upon request). A rotary selector 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 $\mathbf{C f 4 0 0}$.

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

Figure 1 - CF400 block diagram:


## CF400 Module Details



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Table 3 - CF400 Circuit Legend
1 Microprocessor.
2 Communications Chip.
3 Quartz Crystal.
4 Power Supply Capacitor.
5 Voltage Regulator.
6 3,4 channel jumper
7 Auto reset +/-5\%
8 Output LED Monitors.
9,10,11,12 Optical Couplers \# 1,2,3,4
13,14,15,16 Mosfets \# 1,2,3,4
S1 Rate / speed selector
S2 Pattern selector S3 chaser / fader jumper

## Mechanical Installation

The CF400 modules are designed to be mounted in NEMA enclosures( by others).


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Board dimensions:
3.61" x 1.90" x 1"


Figure 3 - CF400Dimensional Diagram

## Figure 4- CF400 GENERALWIRING INSTRUCTIONS:



## Wiring Notes

 Amps. ) per dimmer output loads. increase capacity. electrician.Figure 4 - CF400 wiring Diagram

## NOTES

1 Follow Power supply installation \& wiring instructions from manufacturer.
2 Maximum Load Per Output: 5 Amps.
3 Maximum total loads on four outputs: 8 Amps.

The CF400 is shipped from the factory with jumper S3 installed which is the chaser mode. Remove jumper S3 for cross fader/ auto dim mode.

Open cover to access to jumper (S3 )
Jumper (S3)
When S3 Jumper is Installed
The unit is a chaser with instant
0 to 100\% steps.
When S3 Jumper is Removed
The unit is a fader with slow 0 to
100 \% level change
Unit is shipped
with S3 Installed.

Croos fade/ chase jumper


S1: speed seector; $0=$ slowest; $F=$
fastest
S2: pattern selctor 0=auto pattern
sequencing

## BEFORE ENERGIZING THE CF400 MAKE SURE:

Loads are tested before connecting to dimmers.
All line voltage screw terminals are properly tightened to prevent hot spots.

## LIMITED WARRANTY

Digital Lighting Systems, warrants to the purchaser 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 as shall within two years of 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, 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 128 Ct. Bay \#105
Miami, FL 33186
(305) 969-8442


Digital Lighting Systems, Inc.
12302 SW 128 Ct. Bay \#105
Miami, FL 33186
www.digitallighting.com

Tel 305-969-8442
Fax 305-969-8675
e-m info@digitallighting.com

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.

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