Quick Reference

COMMAND FUSION

SW16
Button Panel Interface
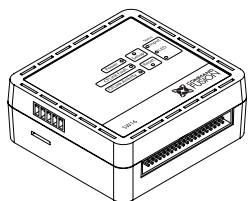
www.commandfusion.com

Designed Globally

http://cfdev.info

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Specifications are subject to change without notice.

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FC CE N29992 RoHS

Overview

The CommandFusion SW16 is a 16 input switch interface, with 16 dimmable status LED outputs and 4 dimmable backlight LED outputs.

Using the inputs you can trigger rules, essentially using macros to control anything within the CFLink network. The SW16 is designed to be used with any keypad, custom or off the shelf.

Power

The device can be powered via 9-30V DC (24V DC recommended). Power can be supplied via the CFLink bus or locally using the V+ and V- pins of the CFLink connector.

Configuration

To configure CommandFusion hardware on your local network, you need to install System Commander software on your computer. Download it for free from http://downloads.commandfusion.com

After installed, launch System Commander and choose 'Network > Go Online' from the main menu.

Your hardware should be automatically detected. You can then select the device from the list and configure it.

SW16 Features

- LEDs
- CFLink
- MicroSD
- Pinhole Buttons
- 40 Pin Header

Pinhole Buttons

- Setup - Only used for Factory Reset.
- Reset - Press to reset the unit.

Ports

CFLink
A 5-wire, peer-to-peer bus used to link multiple CommandFusion hardware devices together. Any 5-core or greater cable can be used, including CAT5/6.

40 Pin Header
The 40 pin header on the front of the unit has pins allocated for all the dry contact inputs and LED outputs, as well as one pair for the LED supply voltage levels and one pair for ground.
The SW16 ships with a rainbow colored ribbon cable ready for use.
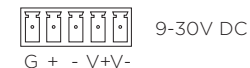
MicroSD Card Slot
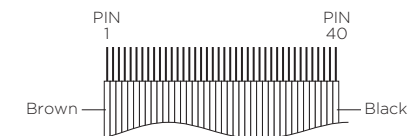The device contains on-board memory, which can be extended by using a Micro SD memory card. **Do not insert a memory card unless you have reached the limit of on-board memory storage.**

Wiring 40 Pin Header

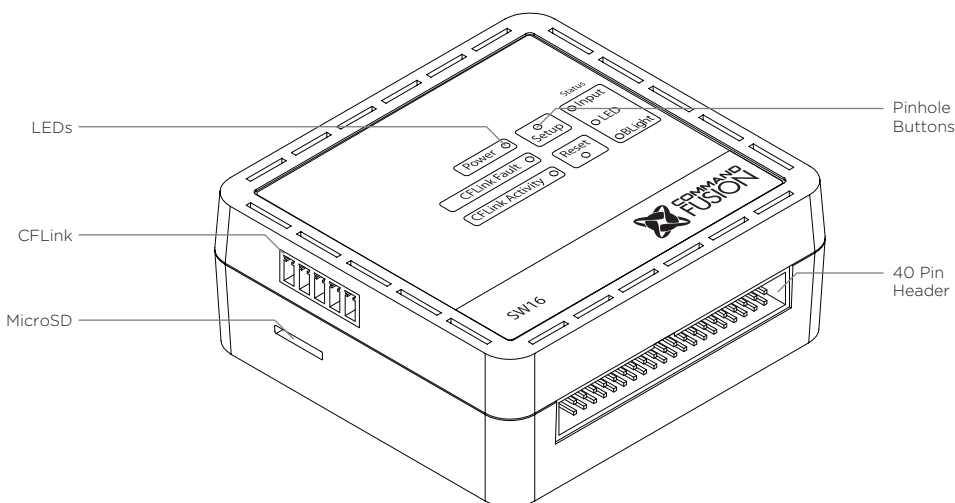### Wiring to LEDs

SW16 LED Wiring

ANODE (+) | CATHODE (-) (flat side)

3.3V DC Mode

PIN 37 PURPLE
+3.3V

PIN 17-36 (cathode)

5V DC Mode

PIN 38 GREY
+5V

PIN 17-36 (cathode)

Wiring to Switches

PIN 39-40 (Ground) —o/ o— PIN 1-16 (Input)
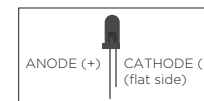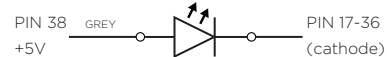
Switch

Factory Reset

To erase all settings and return the unit to factory default settings do the following:

1. Press and hold both the SETUP and RESET buttons simultaneously for 1 second.

2. Release the RESET button, but continue holding the SETUP button until the power LED begins to flash quickly.

3. Release the SETUP button and the device will reboot with factory settings.

Pinout Diagrams

CFLink

9-30V DC

G + - V+V-

40 Pin Header

PIN 1   PIN 40

Brown   Black

01. Input 1 +
02. Input 2 +
03. Input 3 +
04. Input 4 +
05. Input 5 +
06. Input 6 +
07. Input 7 +
08. Input 8 +
09. Input 9 +
10. Input 10 +
11. Input 11 +
12. Input 12 +
13. Input 13 +
14. Input 14 +
15. Input 15 +
16. Input 16 +
17. Status LED 1 Cathode (-)
18. Status LED 2 Cathode (-)
19. Status LED 3 Cathode (-)
20. Status LED 4 Cathode (-)
21. Status LED 5 Cathode (-)
22. Status LED 6 Cathode (-)
23. Status LED 7 Cathode (-)
24. Status LED 8 Cathode (-)
25. Status LED 9 Cathode (-)
26. Status LED 10 Cathode (-)
27. Status LED 11 Cathode (-)
28. Status LED 12 Cathode (-)
29. Status LED 13 Cathode (-)
30. Status LED 14 Cathode (-)
31. Status LED 15 Cathode (-)
32. Status LED 16 Cathode (-)
33. Backlight LED 1 Cathode (-)
34. Backlight LED 2 Cathode (-)
35. Backlight LED 3 Cathode (-)
36. Backlight LED 4 Cathode (-)
37. Voltage supply 3.3V DC - To Anode (+) of LEDs
38. Volatge supply 5V DC - To Anode (+) of LEDs
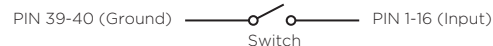39. Ground
40. Ground