



# SW16

16-channel button interface



The SW16 is a 16-channel button interface for custom-made button panels.

- CFLink BUS device with independent processor and memory
- 16 x digital inputs for buttons
- 16 x dimmable LED outputs for indicators
- 4 x dimmable LED outputs for backlight

## Overview

The SW16 is used to interface physical buttons to the CFLink network. With 16 x Dry contact inputs, you can connect up to 16 momentary or toggle switches to control your automation system. The 16 channels of dimmable LED outputs allow you to show feedback states for the buttons, and 4 dimmable backlight LED outputs can be used to backlight your keypad if required.

## Dimmable LED Outputs

The 16 dimmable LED outputs and 4 dimmable backlight LED outputs can be controlled via the CFLink protocol. This allows you to not only turn these LEDs on and off, but you can set the dimming level of the individual outputs, in 100 steps. There are also commands to ramp between levels, blink the LED (set number of times or continuously) and dim up/down in a loop. This means you can show all sorts of feedback states via these LED outputs. You could even use 3 channels of the LED outputs to drive a single RGB LED for multi-color feedback states.

## Custom Button Panels

Although you could use any off the shelf button panel and wire the buttons up to the SW16, you could also create your own custom button panels to suit any task. Put a few buttons together on a wall plate material of your choosing, and create physical interfaces for industrial automation tasks.

CONNECTIVITY	
CFLink	Detachable 5-pin 3.81mm terminal block for CFLink BUS
40 pin connector	40-pin ribbon cable (included) 16 digital inputs (pins 1-16) referenced to ground 16 dimmable LED outputs 4 dimmable backlight LED outputs 3.3V / 5V header for selecting LED voltages
MicroSD Slot	Spring-loaded memory expansion slot (card not included)
POWER	
CFLink Power	9-30V DC, 24V DC regulated recommended (power supply is not included)
Power Consumption	2W maximum
TOP PANEL	
Power Indicator	Blue LED indicates power status
CFLink Fault LED	Red LED indicates error on CFLink BUS
CFLink Activity LED	Yellow LED indicates CFLink BUS traffic
Setup Button	Setup button used for factory reset
Reset Button	Reset button restarts the processor
Input Indicator	Yellow LED indicates one of the dry contact inputs is closed
LED Indicator	Yellow LED indicates one of the dimmable LED outputs is on
BLight Indicator	Yellow LED indicates one of the dimmable backlight LED outputs is on
PHYSICAL	
Enclosure	Polycarbonate with dark grey matte finish
Height	31.5mm (1.24in)
Width	81.4mm (3.2in)
Depth	76.4mm (3.0in)
Weight	0.11kg (0.24lbs), Shipping 0.3kg (0.66lbs)
Temperature	5°C to 45°C (41°F to 113°F)
Humidity	20% to 85% RH, non-condensing
Certification	FCC, CE, C-Tick
WARRANTY	
Warranty	5 years limited warranty