

# SIGNAL COMMON CONVERTER 4 (SCC4)

The Signal Common Converter 4 (SCC4) converts signals with a common anode LED configuration to a common cathode configuration so they can be used with Sidetracked Electronics signal controllers. Each SCC4 converts up to four signal LEDs.

## What you should have

- 1 x Sidetracked Electronics Signal Common Converter 4 (SCC4).
- 1 x User manual.
- 2 x Mounting screws and standoffs.

## About this manual

Text written in *ITALICS* in this manual represents text as it is written on the SCC4.

## Operation

LEDs have to be connected in a certain way in order for them to work. They are polarised, meaning they have a positive (anode) and a negative (cathode) pin. The cathode pin is easily identified as it is either the shorter of the two leads and/or it is marked by a flat spot on the body of the LED.

A common anode signal is one which has all the positive (anode) pins of its LEDs joined together. Likewise a common cathode signal is one which has all its negative (cathode) pins joined together.

Sidetracked Electronics designs all of its signal controllers to operate common cathode signals, by using a SCC4 you can now operate common anode signals as well.

## Wiring

Connect a wire from the *GND* terminal on your signal controller to the *CC-* terminal on your SCC4. Then wire from the *CA+* terminal on the SCC4 to the common anode on your signal. For the first LED in your signal you will need to wire from the output terminal on your signal controller to the input terminal *IP1* on your SCC4, then wire from its corresponding output terminal *OP1* to the LED in your signal. Repeat this for every LED in your signal using the remaining three converters on the SCC4.

**Note:** any current limiting resistors that need to be used must be placed between the SCC4 unit and your signal, not between the your signal controller and the SCC4.

## Specifications

Dimensions: 50mm (width) x 45mm (depth) x 18mm (height)

Sidetracked Electronics  
PO Box 7085, Safety Bay Western Australia, 6169  
Phone: +61 8 9528 5344  
Email: [enquiries@sidetracked-e.com](mailto:enquiries@sidetracked-e.com)  
Website: [www.sidetracked-e.com](http://www.sidetracked-e.com)

© Copyright